



# NEW BUILD YOUR COMPLETE SOLUTION.





# WELCOME TO FIRST CLASS.

OUR AWARD WINNING BOILERS GO THROUGH 200 QUALITY CHECKS BEFORE THEY LEAVE THE FACTORY, AND ARE AVAILABLE WITH A RANGE OF FLEXIBLE WARRANTY OPTIONS. YOU CAN REST ASSURED RELIABILITY IS GUARANTEED WHEN YOU PARTNER WITH IDEAL.



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## THE IDEAL PRODUCT RANGE.

Representing the next generation in heating design, the Logic range of boilers offers state-of-the-art technology in a practical, compact unit that fits easily into any standard kitchen cupboard.

Available in a range of outputs, the Logic range comes complete with a flexible parts and labour warranty package.



## **LOGIC COMBI**

Designed to be installed with minimal fuss.

## **LOGIC SYSTEM**

A simple and reliable solution for a wide variety of sealed domestic systems.

## **LOGIC HEAT ONLY**

Highly efficient and easy to operate, thanks to straightforward controls featuring a clear digital display.

## **LOGIC CODE COMBI ES**

A simple one box solution, capable of supporting up to level 4 of the code for sustainable homes with built in flue gas heat recovery.

## **LOGIC COMBI ES**

A high efficiency combination boiler particularly beneficial for small, social new build properties.



# LOGIC COMBI 24 30 35.

## HIGH EFFICIENCY COMBINATION BOILERS.

Designed to be installed with the minimum of fuss  
Logic appliances offer a speedy installation.



## FEATURES.



COMPACT



DIGITAL DISPLAY



FROST PROTECTION



FLUE VARIANTS



LPG CONVERSION\*



NOx CLASS 5

## SPECIFICATION.

- Pre-heat function
- 75mm deep translucent condensate siphon
- Clear alpha-numeric display
- Fully modulating operation to low outputs
- Automatic bypass
- Four optional language user instructions\*\*
- Visually impaired user fascia option

### RELIABLE

- Energy Saving Trust endorsed product
- Boiler frost protection
- Built-in, easy to use filling loop
- Simple diverter valve design
- Two stage flame sensing for greater reliability
- Latest generation Honeywell gas valve
- ErP compliant

### EASY TO INSTALL

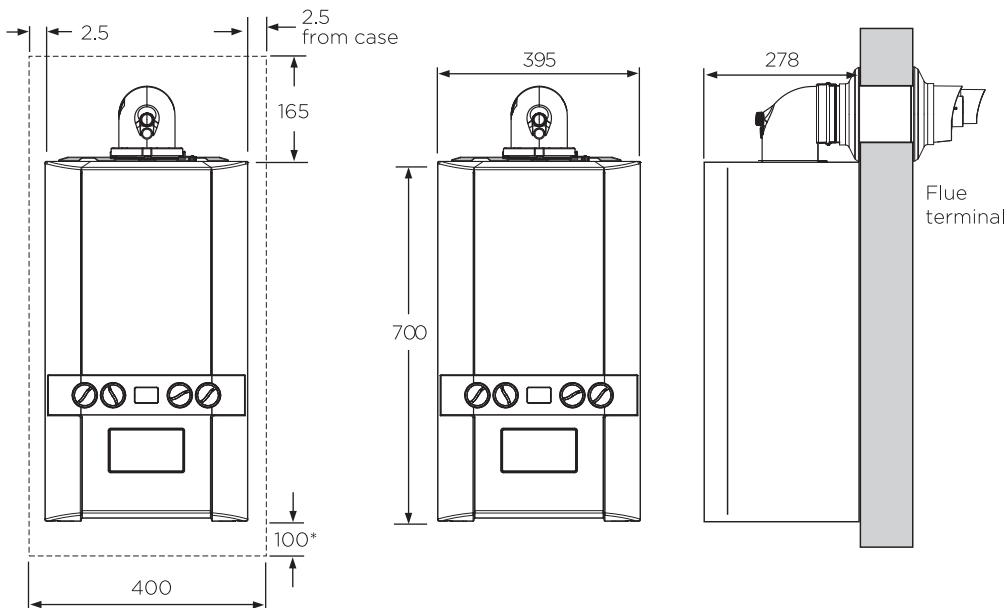
- Compact cupboard fit
- Fast fix flues
- Wide range of additional flueing options
- Low lift weight (32kg)
- Easy access to PRV and AAV
- Preformed copper tails
- Pre-wired mains lead (2m)
- Universal condensate connection
- Stand-off kit including piping option
- Compatible with a range of additional controls
- inc. weather compensation
- LPG conversion kit available for 24 kW & 30 kW boilers



\* Available with 24 & 30 kW models.

\*\* Available to download from [www.idealboilers.com](http://www.idealboilers.com)

## CLEARANCES AND DIMENSIONS.



### DIMENSIONS:

Height: 700mm  
 Width: 395mm  
 Depth: 278mm

Note: The minimum front clearance when built in to a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

\*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

## FLUE LENGTHS.

### COMBI 24

### COMBI 30

### COMBI 35

Max horizontal**	9m	8m	6m
Max vertical**		7.5m	
Powered vertical <sup>†</sup>		22m	

# TECHNICAL SPECIFICATION.

	COMBI 24	COMBI 30	COMBI 35
Weight (packaged) kg	36.3	36.5	36.5
Max installation weight kg	31.8	32	32
CH output (kW) min/max @ 70°C	4.8 - 24.2	6.1 - 24.2	7.1 - 24.2
CH output (kW) min/max @ 40°C	5.1 - 25.6	6.4 - 25.6	7.5 - 25.6
DHW output (kW) max	24.2	30.3	35.3
DHW flow rate l/min. 35°C rise	9.9	12.4	14.5
SEDBUK rating (2005) %	91	91.1	91
SEDBUK rating (2009) %	89.0	89.0	88.9
NOx classification	CLASS 5		
Adjustable to LPG	Yes	Yes	No
Condensing boiler	Yes		
Seasonal space heating efficiency class	A		
Rated heat output kW	24		
Seasonal space heating energy efficiency $\eta_{son}$ %	93		
Sound power level, indoors LWA dB	45	45	44
Water heating energy efficiency class	A		

Available flue extensions 0.5m, 1m and 2m. Multiple flue kits available.

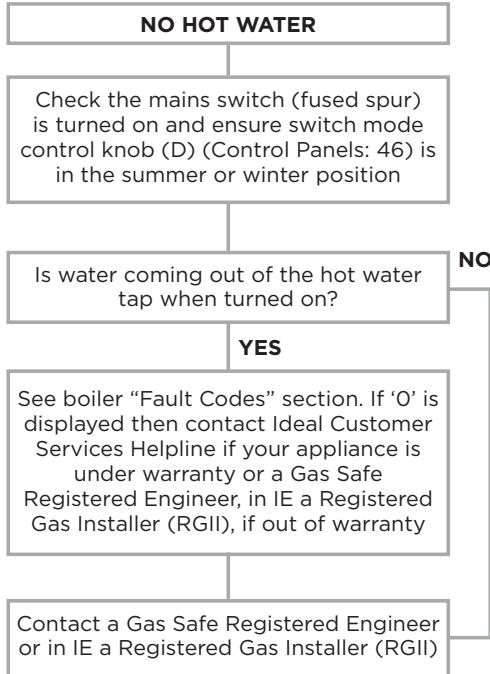
\*\* Each 90° elbow used is at the expense of 1000mm of straight flue run, and each 45° elbow is used at the expense of 600mm of straight flue run.

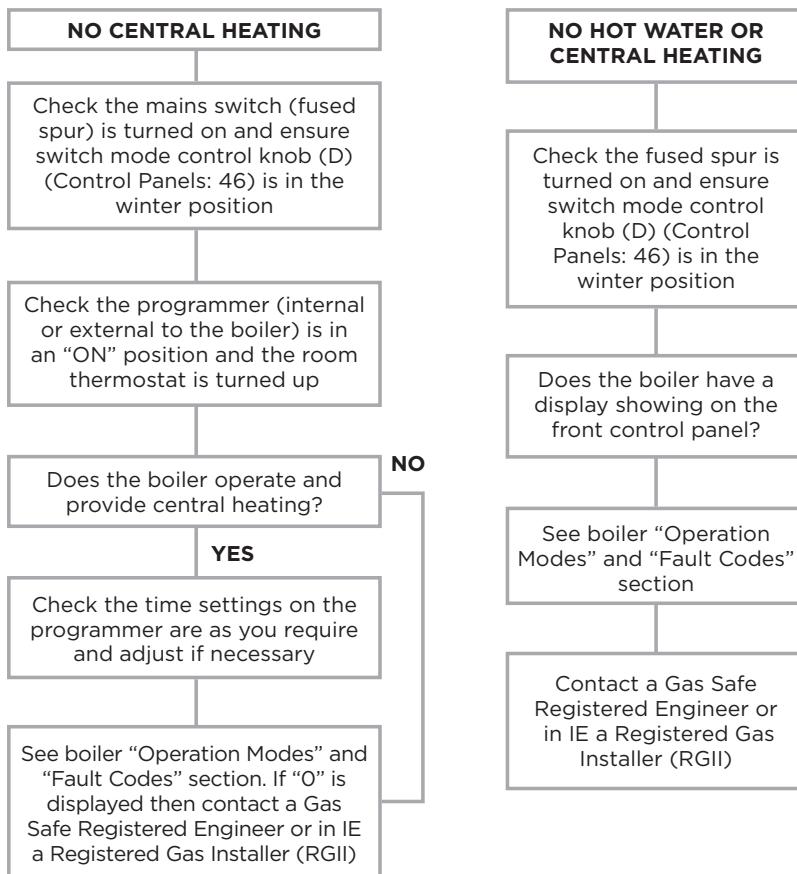
† Typical combined primary and secondary length. See installation instructions for more details. Note: The Flue Deflector Kit is used at the expense of 1000mm of straight flue run.

# TROUBLESHOOTING.

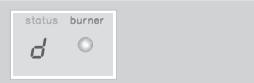
## POINTS FOR THE BOILER USER

**Note.** In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineers visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge for the visit, or for any pre-arranged visit where access is not gained by the engineer.





# OPERATIONS MODE.

DISPLAY CODE ON THE BOILER	DESCRIPTION
	The boiler is in standby mode awaiting either a central heating call or hot water demand.
	The boiler has a call for central heating but the appliance has reached the desired temperature set on the boiler.
	The boiler has a call for hot water but the appliance has reached the desired temperature set on the boiler.
	The boiler is operating in central heating mode.
	The boiler is operating in hot water mode.
	The boiler is operating in pre-heat mode.
	The boiler is operating in frost mode.

# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
 	Outside sensor failure	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Low mains voltage	Contact a qualified electrician or your electricity provider.
 	Unconfigured PCB	Unconfigured PCB. Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Boiler resets in 15 minutes	1. Turn power off and on at the fused spur. 2. If the boiler fails to operate please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).

# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
	False flame lockout	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	BCC activation fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	BCC fault	Check the correct BCC is fitted for the boiler, and securely inserted into the slot at the front left of the PCB. (Identified by the label on the BCC). If yes then replace the current BCC with a new one correctly labelled for the boiler. If it is incorrect (turn off the power) then insert correctly into PCB after switching power back on restart the boiler.
	Low water pressure	Check system pressure is between 1 & 1.5bar on the pressure gauge. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow temperature overheat or no water flow	Is the boiler and CH heating system filled and all isolation valves and radiators open? If not then fill and vent the system and open all isolation valves and restart the boiler. Check that the pumps are rotating freely and the flow and return have a differential across the boiler in excess of 30°C.
	Flame loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Fan fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Return thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
		
		
		
		
		
		
		

# LOGIC SYSTEM

15 18 24 30

# LOGIC SYSTEM 15 18 24 30.

## HIGH EFFICIENCY SYSTEM BOILERS.

The Logic system range of appliances from Ideal provide a simple and reliable solution for a wide variety of sealed domestic systems.



## FEATURES.



COMPACT



DIGITAL DISPLAY



FROST PROTECTION



FLUE VARIANTS



LPG CONVERSION\*\*



NOx CLASS 5

## SPECIFICATION.

- Digital display and simple diagnostics
- Fully modulating operation down to 4.8 kW\*
- Weather compensation kit option

### RELIABLE

- Energy Saving Trust endorsed product
- Boiler frost protection
- Built-in condensate trap
- Latest generation Honeywell gas valve
- ErP compliant
- Two stage flame sensing for better reliability

### EASY TO INSTALL

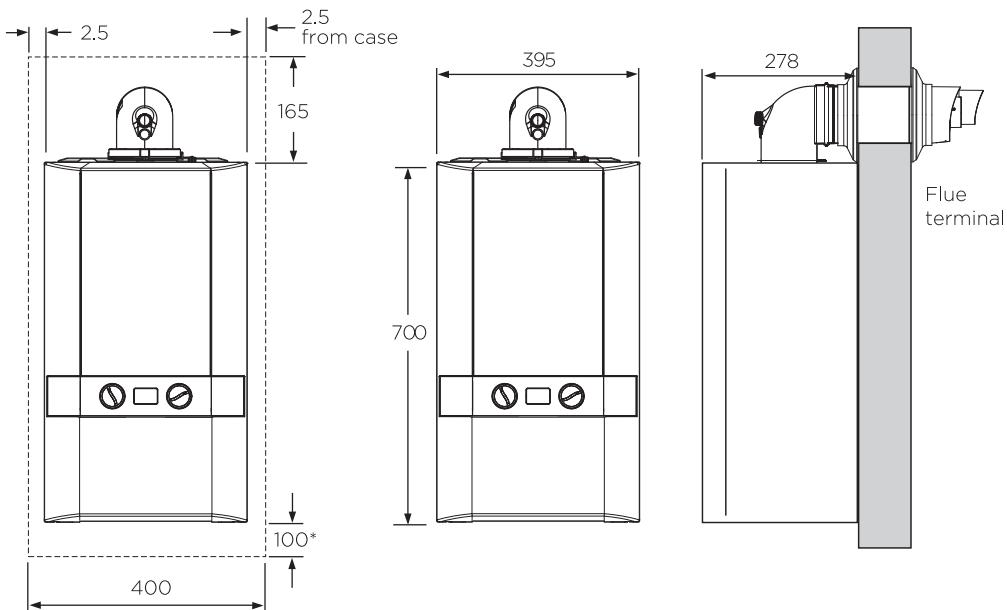
- Compact cupboard fit
- Wide range of flueing options
- Concealed pipe connections
- Low lift weight (28kg)<sup>†</sup>
- Preformed copper tails
- LPG Conversion kit available for 24 kW & 30 kW boilers
- Stand-off kit and pre-pipe options
- Pre-wired mains lead
- Easy Access to PRV and AAV
- Universal condensate connection



\* (30 kW only - 6.1 kW). \*\* Available with 24 & 30 kW models.

<sup>†</sup> Weight with front panel removed.

## CLEARANCES AND DIMENSIONS.



### DIMENSIONS:

Height: 700mm  
 Width: 395mm  
 Depth: 278mm

Note: The minimum front clearance when built in to a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

\*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

## FLUE LENGTHS.

### SYSTEM 15

Max horizontal	9m
Max vertical	7.5m
Powered vertical	22m

### SYSTEM 18

# TECHNICAL SPECIFICATION.

	SYSTEM 15	SYSTEM 18	SYSTEM 24	SYSTEM 30
Weight (packaged) kg			34.4	
Max installation weight kg			28	
CH output (kW) min/max @ 70°C	4.8 - 15.0	4.8 - 18.0	4.8 - 24.2	6.1 - 30.3
CH output (kW) min/max @ 40°C	5.1 - 15.9	5.1 - 19.1	5.1 - 25.6	6.4 - 31.0
DHW output (kW) max			n/a	
DHW flow rate l/min. 35°C rise			n/a	
SEDBUK rating (2005) %	91.1	91	91	91.1
SEDBUK rating (2009) %	89.3	89.2	89.5	89.6
NOx classification			CLASS 5	
Adjustable to LPG	No	No	Yes	Yes
Condensing boiler			Yes	
Seasonal space heating efficiency class			A	
Rated heat output kW	15	18	24	30
Seasonal space heating energy efficiency $\eta_{son}$ %	93	93	93	93
Sound power level, indoors L <sub>WA</sub> dB	41	42	45	45
Water heating energy efficiency class			n/a	

## SYSTEM 24

## SYSTEM 30

Multiple flue kits available.

9m

8m

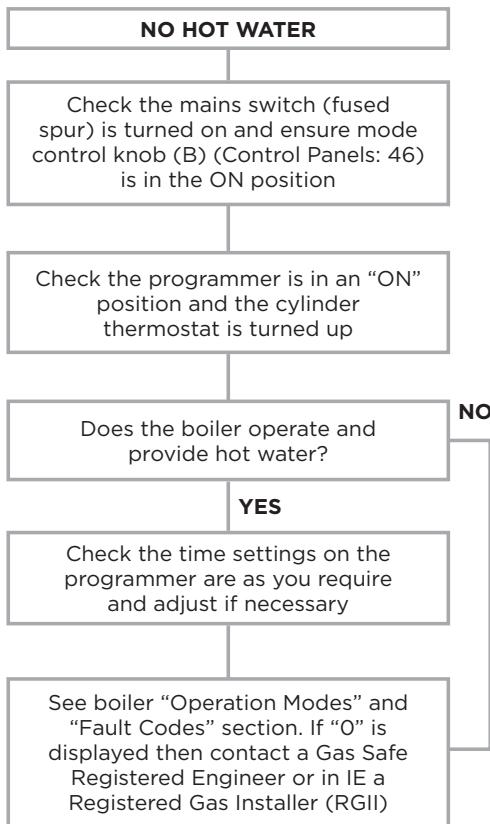
7.5m

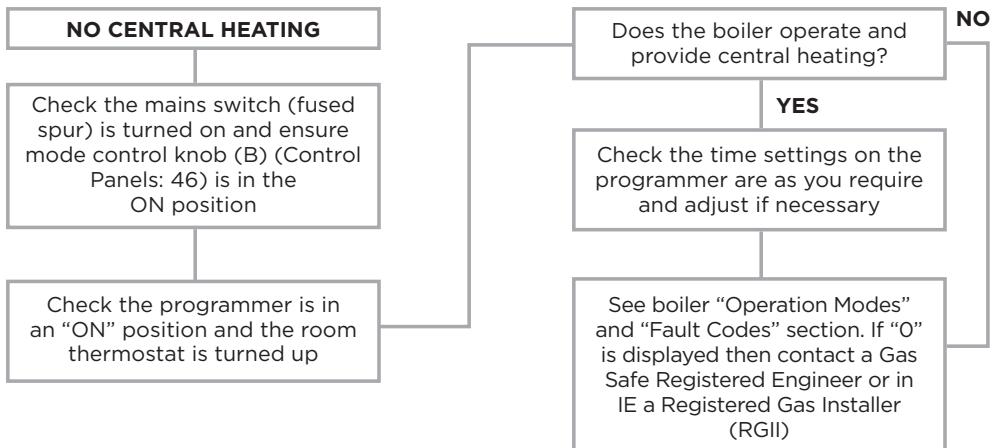
22m

# TROUBLESHOOTING.

## POINTS FOR THE BOILER USER

**Note.** In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineers visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge for the visit, or for any pre-arranged visit where access is not gained by the engineer.





## OPERATIONS MODE.

### DISPLAY CODE ON THE BOILER

### DESCRIPTION

	The boiler is in standby mode awaiting either a central heating call or hot water demand.
	The boiler has a call for central heating / hot water but the appliance has reached the desired temperature set on the boiler.
	The boiler is operating for central heating / hot water.
	The boiler is operating in frost mode.

# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
	Boiler chip card (BCC) not fitted	Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Outside sensor failure	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Low mains voltage	Contact a qualified electrician or your electricity provider.
	PCB fault	PCB Fault. Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Boiler resets in 15 minutes	1. Turn power off and on at the fused spur. 2. If the boiler fails to operate please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	False flame lockout	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	BCC activation fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	BCC fault	Check system pressure is between 1 & 1.5 bar on the pressure gauge. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
	Low water pressure	Check system pressure is between 1 & 1.5bar on the pressure gauge. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow temperature overheated	Is the boiler and CH heating system filled and all isolation valves and radiators open? If not then fill and vent the system and open all isolation valves and restart the boiler. Check that the pumps are rotating freely and the flow and return have a differential across the boiler in excess of 30°C.
	Flame loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Fan fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Control / no flow thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Return thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
		

# LOGIC HEAT 12 15 18 24 30.

## HIGH EFFICIENCY HEAT BOILERS.

Designed to be installed with the minimum of fuss Logic appliances offer a speedy installation.



LOGIC HEAT

12 15 18 24 30

## FEATURES.



COMPACT



DIGITAL DISPLAY



FROST PROTECTION



FLUE VARIANTS



LPG CONVERSION\*



DIRECT REAR FLUE



NOx CLASS 5

## SPECIFICATION.

- Fully modulating operation down to 4.8 kW\*\*
- Weather compensation kit option
- Water flow sensor
- Four optional language user instructions\*<sup>2</sup>

### RELIABLE

- Energy Saving Trust endorsed product
- Boiler frost protection
- Two stage flame sensing for greater reliability
- Latest generation Honeywell gas valve
- ErP compliant

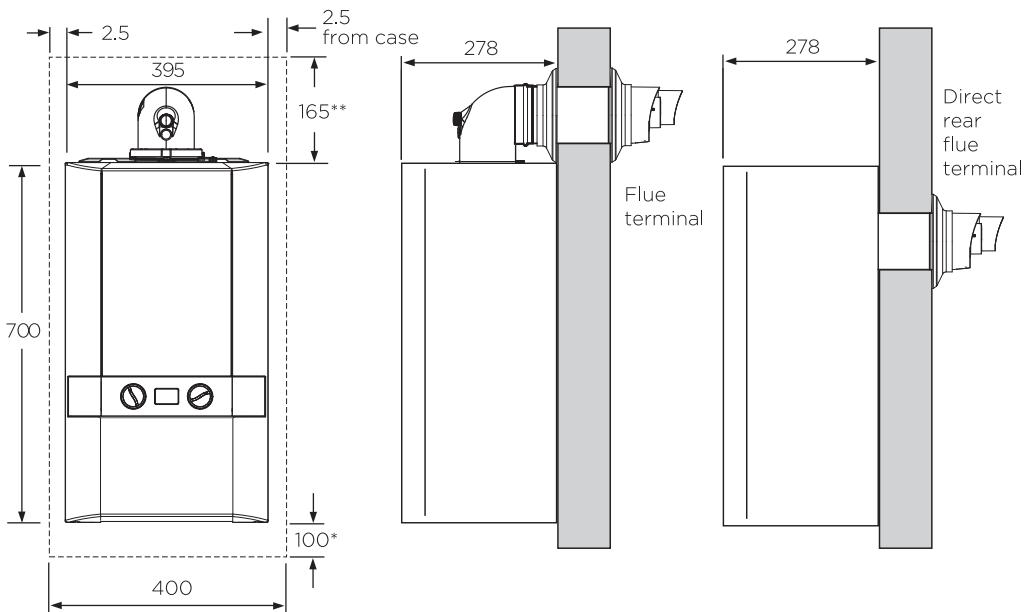
### EASY TO INSTALL

- Compact cupboard fit
- Direct 80mm diameter rear flue option
- Wide range of flueing options
- Low lift weight (23kg)<sup>†</sup>
- Top system connections
- 75mm deep translucent condensate siphon
- Stand-off kit
- Terminal wall plate kit
- Security bracket kit
- Low minimum head requirement
- LPG conversion kit available for 24 kW & 30 kW boilers



\* Available with 24 & 30 kW models. \*\* (30 kW only - 6.1 kW).  
 \*<sup>2</sup> Available to download from [www.idealboilers.com](http://www.idealboilers.com) † Weight with front panel removed.

## CLEARANCES AND DIMENSIONS.



Note: The minimum front clearance when built in to a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

### DIMENSIONS:

Height: 700mm  
 Width: 395mm  
 Depth: 278mm

\*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

\*\* Rear flue option - top clearance 100mm.

## FLUE LENGTHS.

HEAT 12

HEAT 15

HEAT 18

Max horizontal

9m

Max vertical

7.5m

Powered vertical

22m

# TECHNICAL SPECIFICATION.

	HEAT 12	HEAT 15	HEAT 18	HEAT 24	HEAT 30
Weight (packaged) kg	28.5				
Max installation weight kg	22.8				
CH output (kW) min/max @ 70°C	4.8 - 12.0	4.8 - 15.0	4.8 - 18.0	4.8 - 24.2	6.1 - 30.3
CH output (kW) min/max @ 40°C	5.1 - 13.0	5.1 - 15.9	5.1 - 19.1	5.1 - 25.6	6.4 - 31.0
DHW output (kW) max	n/a				
DHW flow rate l/min. 35°C rise	n/a				
SEDBUK rating (2005) %	91.2	91.1	91	91	91.1
SEDBUK rating (2009) %	89.4	89.3	89.2	89.5	89.6
NOx classification	CLASS 5				
Adjustable to LPG	No	No	No	Yes	Yes
Condensing boiler	Yes				
Seasonal space heating efficiency class	A				
Rated heat output kW	12	15	18	24	30
Seasonal space heating energy efficiency η <sub>son</sub> %	93	93	93	93	93
Sound power level, indoors L <sub>WA</sub> dB	40	41	42	45	45
Water heating energy efficiency class	n/a				

**HEAT 24**

**HEAT 30**

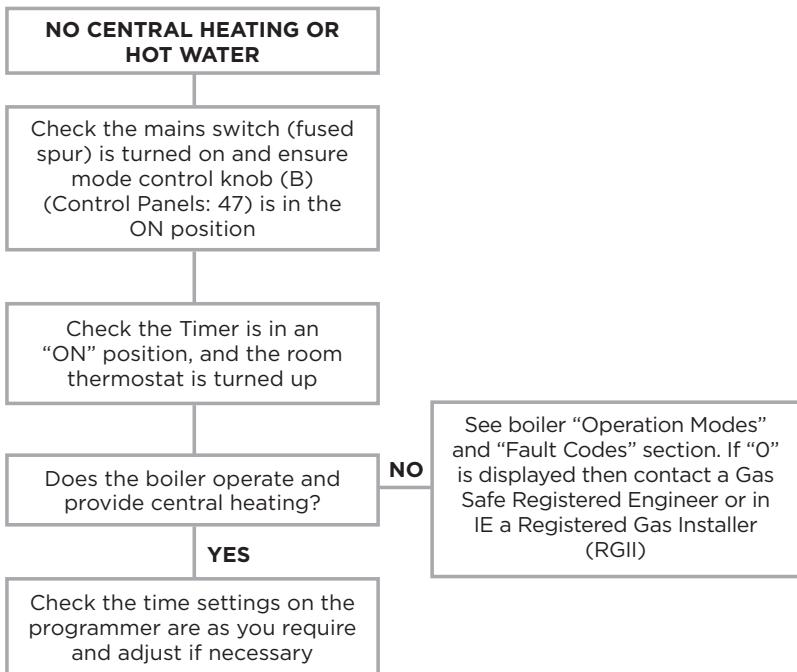
Multiple flue kits available.

8m

# TROUBLESHOOTING.

## POINTS FOR THE BOILER USER

**Note.** In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineers visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge for the visit, or for any pre-arranged visit where access is not gained by the engineer.



# OPERATIONS MODE.

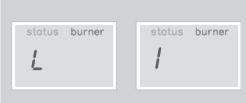
DISPLAY CODE ON THE BOILER	DESCRIPTION
	The boiler is in standby mode awaiting either a central heating call or hot water demand.
	The boiler has a call for central heating / hot water but the appliance has reached the desired temperature set on the boiler.
	The boiler is operating for central heating / hot water.
	The boiler is operating in frost mode.

# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
	BCC activation fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	BCC fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Unconfigured PCB	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flame loss	See Action - Fault Code L 2.

# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
	Fan fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Return thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Outside sensor failure	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Low mains voltage	Contact a qualified electrician or your electricity provider.
	PCB fault	Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow/return reversed	Please contact a Gas Safe Registered Engineer. In IE contact a Registered Gas Installer (RGII).
	No water flow	Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
	Flow temperature overheat or unconfigured PCB	Check system pressure is between 1 & 1.5bar on the pressure gauge. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Ignition lockout	<ol style="list-style-type: none"> <li>1. Check other gas appliances in the house are working to confirm a supply is present in the property.</li> <li>2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).</li> </ol>
	Boiler resets in 15 minutes	<ol style="list-style-type: none"> <li>1. Turn power off and on at the fused spur.</li> <li>2. If the boiler fails to operate please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).</li> </ol>
	False flame lockout	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).

# LOGIC CODE COMBI ES 26 33 38.

## HIGH EFFICIENCY COMBINATION BOILERS.

Designed to take the headache out of meeting Building Regulations, the Logic Code Combi ES from Ideal is a simple one-box solution, capable of supporting up to level 4 of the Code for Sustainable homes.



## FEATURES.



COMPACT



DIGITAL DISPLAY



FROST PROTECTION



FLUE VARIANTS



LPG CONVERSION\*



NOx CLASS 5

## SPECIFICATION.

- Complete range of Logic combination boilers for social new build developers
- Achieves optimum SAP and DER ratings for standard combination boiler usage
- Higher DHW flow rates than standard boiler - approximately 10% increase

### RELIABLE

- Energy Saving Trust endorsed product
- High DHW efficiency - reduced running costs
- Less waste DHW water as DHW inlet is preheated
- Reduced plumbing on DHW
- ErP compliant

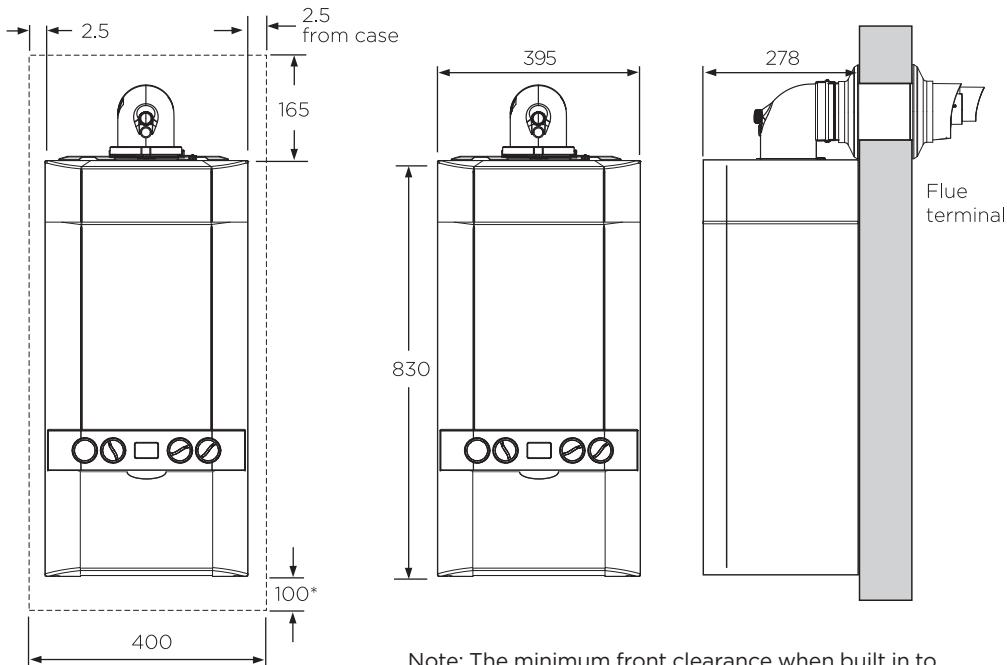
### EASY TO INSTALL

- One single appliance to install - quick and easy
- Built-in pipework; no extra space at the side of the product needed
- Standard combination connections
- No additional maintenance requirement
- Compact and light solution for social new build or retrofit installations



\* Available with 38 kW model.

## CLEARANCES AND DIMENSIONS.



### DIMENSIONS:

Height: 830mm  
Width: 395mm  
Depth: 278mm

Note: The minimum front clearance when built in to a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

\*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

## FLUE LENGTHS.

### CODE COMBI ES 26    CODE COMBI ES 33    CODE COMBI ES 38

Max horizontal**	9m	8m	6m
Max vertical**		7.5m	
Powered vertical <sup>†</sup>		22m	

# TECHNICAL SPECIFICATION.

	CODE COMBI ES 26	CODE COMBI ES 33	CODE COMBI ES 38
Weight (packaged) kg	41.3	41.4	41.6
Max installation weight kg	35.9	36.0	36.2
CH output (kW) Min/Max @ 70°C	4.8 - 24.2	6.1 - 24.2	7.1 - 24.2
CH output (kW) Min/Max @ 40°C	5.1 - 25.6	6.4 - 25.6	7.5 - 25.6
DHW output (kW) Max	26.1	32.7	38.2
DHW flow rate l/min. 35°C rise	10.7	13.4	15.7
SEDBUK rating (2005)	91	91.1	91
SEDBUK rating (2009)	89.0	89.0	88.9
NOx classification	CLASS 5		
Adjustable to LPG	No	No	Yes
Condensing boiler	Yes		
Seasonal space heating efficiency class	A		
Rated heat output kW	24		
Seasonal space heating energy efficiency $\eta_{son}$ %	93		
Sound power level, indoors L <sub>WA</sub> dB	45	45	44
Water heating energy efficiency class	A		

Multiple flue kits available.

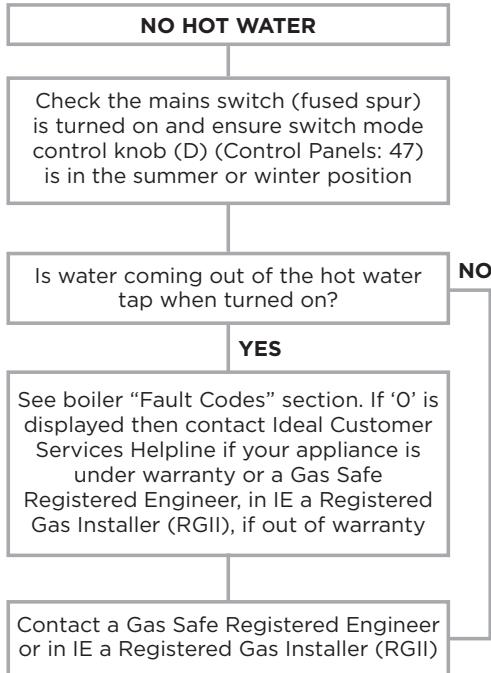
\*\* Each 90° elbow used is at the expense of 1000mm of straight flue run, and each 45° elbow is used at the expense of 600mm of straight flue run.

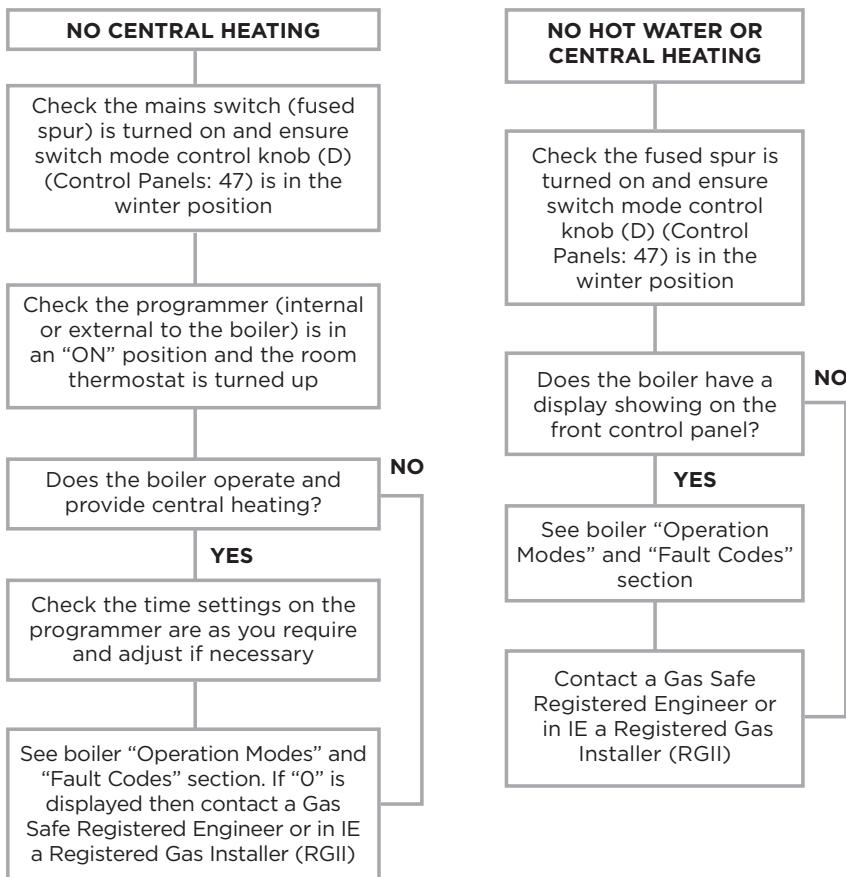
† Typical combined primary and secondary length. See installation instructions for more details. Note: The Flue Deflector Kit is used at the expense of 1000mm of straight flue run.

# TROUBLESHOOTING.

## POINTS FOR THE BOILER USER

**Note.** In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineers visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge for the visit, or for any pre-arranged visit where access is not gained by the engineer.





# OPERATIONS MODE.

DISPLAY CODE ON THE BOILER	DESCRIPTION
	The boiler is in standby mode awaiting either a central heating call or hot water demand.
	The boiler has a call for central heating but the appliance has reached the desired temperature set on the boiler.
	The boiler has a call for hot water but the appliance has reached the desired temperature set on the boiler.
	The boiler is operating in central heating mode.
	The boiler is operating in hot water mode.
	The boiler is operating in frost mode.

# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
 	Outside sensor failure	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Low mains voltage	Contact a qualified electrician or your electricity provider.
 	Unconfigured PCB	Unconfigured PCB. Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	No water flow thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).

# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
	Boiler resets in 15 minutes	1. Turn power off and on at the fused spur. 2. If the boiler fails to operate please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	False flame lockout	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	BCC activation fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	BCC fault	Check the correct BCC is fitted for the boiler, and securely inserted into the slot at the front left of the PCB. (Identified by the label on the BCC). If yes then replace the current BCC with a new one correctly labelled for the boiler. If it is incorrect (turn off the power) then insert correctly into PCB after switching power back on restart the boiler.
	Low water pressure	Check system pressure is between 1 & 1.5bar on the pressure gauge. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow temperature overheated	Is the boiler and CH heating system filled and all isolation valves and radiators open? If not then fill and vent the system and open all isolation valves and restart the boiler. Check that the pumps are rotating freely and the flow and return have a differential across the boiler in excess of 30°C.
	No water flow	
	Flame loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Fan fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Return thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).

# LOGIC COMBI ES 24 30 35.

## HIGH EFFICIENCY COMBINATION BOILERS.

Optimised for new build compliance following the SAP 2009 design procedure, the Logic Combi ES is particularly beneficial for new build properties.



## FEATURES.



COMPACT



DIGITAL DISPLAY



FROST PROTECTION



FLUE VARIANTS



LPG CONVERSION\*



NOx CLASS 5

## SPECIFICATION.

- Complete range of Logic combination boilers for social new build developers
- Achieves optimum SAP and DER ratings for standard combination boiler usage
- 75mm deep translucent condensate siphon
- Fully modulating operation to low outputs
- Automatic bypass

### RELIABLE

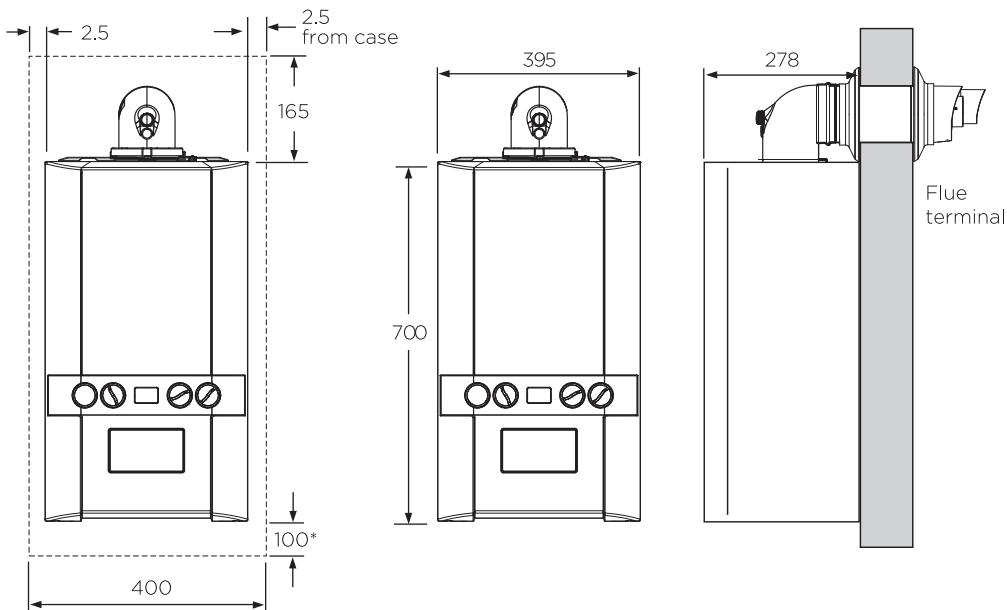
- Energy Saving Trust endorsed product
- Boiler frost protection
- Built-in, easy to use filling loop
- Simple diverter valve design
- Two stage flame sensing for greater reliability
- Latest generation Honeywell gas valve
- ErP compliant

### EASY TO INSTALL

- Compact cupboard fit
- Fast fix flues
- Wide range of additional flueing options
- Low lift weight (33kg)
- Easy access to PRV and AAV
- Preformed copper tails
- Pre-wired mains lead (2m)
- Universal condensate connection
- Stand-off kit including piping option
- Compatible with a range of additional controls inc. weather compensation
- LPG conversion kit available for 30 kW boilers



## **CLEARANCES AND DIMENSIONS.**



## DIMENSIONS:

Height: 700mm

Width: 395mm

Depth: 278mm

Note: The minimum front clearance when built in to a cupboard is 5mm from the cupboard door but 450mm overall clearance with the cupboard door open is required for servicing.

\*Bottom clearance after installation can be reduced to 5mm. However, 100mm is required for servicing.

## FLUE LENGTHS.

	COMBI ES 24	COMBI ES 30	COMBI ES 35
Max horizontal**	9m	8m	6m
Max vertical**		7.5m	
Powered vertical <sup>†</sup>		22m	

# TECHNICAL SPECIFICATION.

	COMBI ES 24	COMBI ES 30	COMBI ES 35
Weight (packaged) kg	37.7	37.8	38
Max installation weight kg	32.7	32.8	33
CH output (kW) min/max @ 70°C	4.8 - 24.2	6.1 - 24.2	7.1 - 24.2
CH output (kW) min/max @ 40°C	5.1 - 25.6	6.4 - 25.6	7.5 - 25.6
DHW output (kW) max	24.2	30.3	35.3
DHW flow rate l/min. 35°C rise	9.9	12.4	14.5
SEDBUK rating (2005) %	91	91.1	91
SEDBUK rating (2009) %	89.0	89.0	88.9
NOx classification	CLASS 5		
Adjustable to LPG	No	Yes	No
Condensing boiler	Yes		
Seasonal space heating efficiency class	A		
Rated heat output kW	24		
Seasonal space heating energy efficiency $\eta_{son}$ %	93		
Sound power level, indoors LWA dB	45	45	44
Water heating energy efficiency class	A		

Available flue extensions 0.5m, 1m and 2m. Multiple flue kits available.

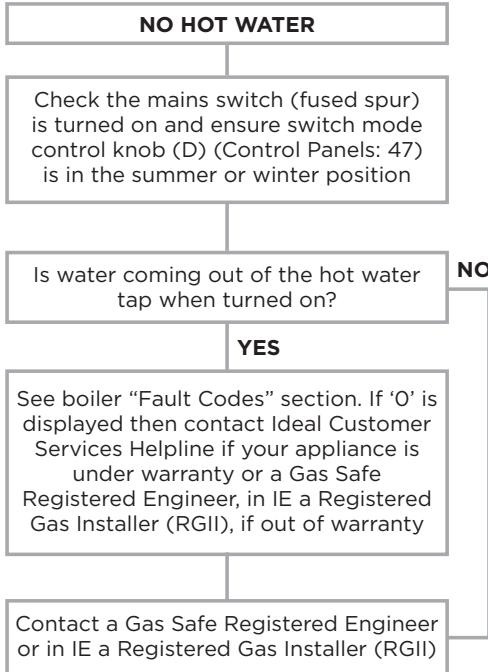
\*\* Each 90° elbow used is at the expense of 1000mm of straight flue run, and each 45° elbow is used at the expense of 600mm of straight flue run.

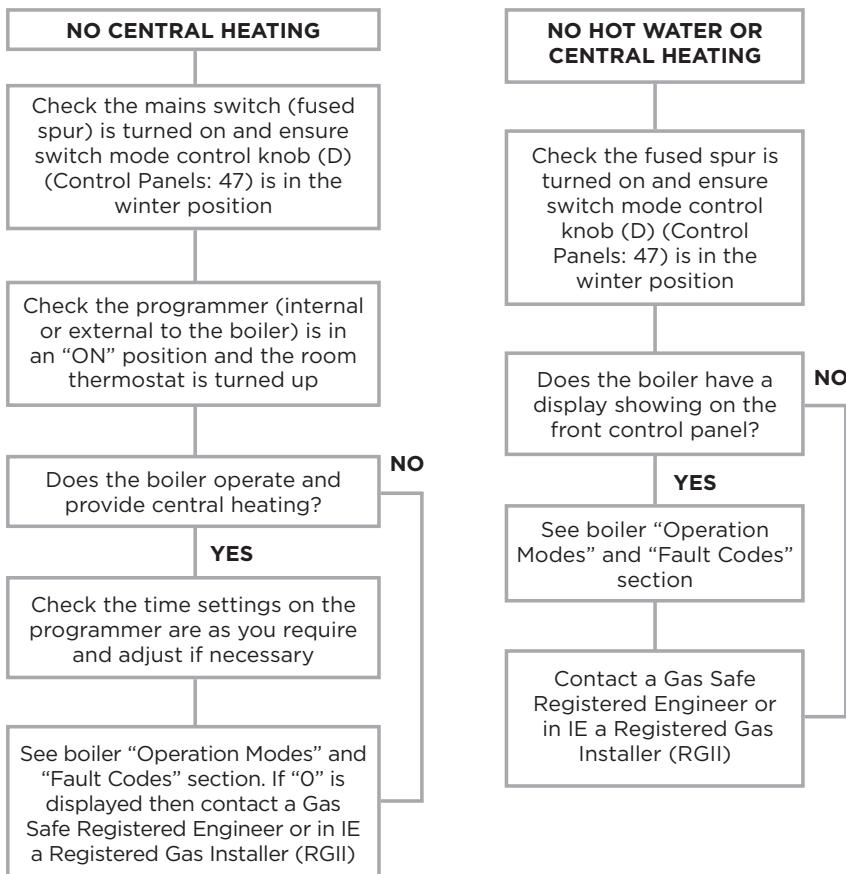
† Typical combined primary and secondary length. See installation instructions for more details. Note: The Flue Deflector Kit is used at the expense of 1000mm of straight flue run.

# TROUBLESHOOTING.

## POINTS FOR THE BOILER USER

**Note.** In line with our current warranty policy we would ask that you check through the following guide to identify any problems external to the boiler prior to requesting a service engineers visit. Should the problem be found to be other than with the appliance we reserve the right to levy a charge for the visit, or for any pre-arranged visit where access is not gained by the engineer.





# OPERATIONS MODE.

DISPLAY CODE ON THE BOILER	DESCRIPTION
	The boiler is in standby mode awaiting either a central heating call or hot water demand.
	The boiler has a call for central heating but the appliance has reached the desired temperature set on the boiler.
	The boiler has a call for hot water but the appliance has reached the desired temperature set on the boiler.
	The boiler is operating in central heating mode.
	The boiler is operating in hot water mode.
	The boiler is operating in frost mode.

# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
 	Outside sensor failure	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Low mains voltage	Contact a qualified electrician or your electricity provider.
 	Unconfigured PCB	Unconfigured PCB. Please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	Boiler resets in 15 minutes	1. Turn power off and on at the fused spur. 2. If the boiler fails to operate please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
 	False flame lockout	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).

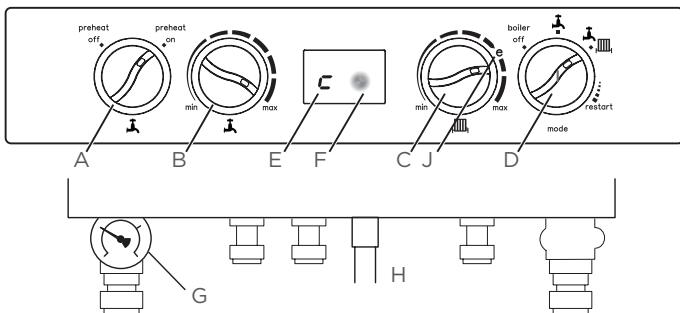
# FAULT CODES.

DISPLAY CODE ON THE BOILER	DESCRIPTION	ACTION
	BCC activation fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	BCC fault	Check the correct BCC is fitted for the boiler, and securely inserted into the slot at the front left of the PCB. (Identified by the label on the BCC). If yes then replace the current BCC with a new one correctly labelled for the boiler. If it is incorrect (turn off the power) then insert correctly into PCB after switching power back on restart the boiler.
	Low water pressure	Check system pressure is between 1 & 1.5bar on the pressure gauge. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow temperature overheat or no water flow	Is the boiler and CH heating system filled and all isolation valves and radiators open? If not then fill and vent the system and open all isolation valves and restart the boiler. Check that the pumps are rotating freely and the flow and return have a differential across the boiler in excess of 30°C.
	Flame loss	1. Check other gas appliances in the house are working to confirm a supply is present in the property. 2. If other appliances do not work or there are no other appliances, check the gas supply is on at the meter and/or pre payment meter has credit. If the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Fan fault	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Flow thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
	Return thermistor	Reset the appliance - if the boiler fails to operate then please contact Ideal (if under warranty) or alternatively a Gas Safe Registered Engineer if outside of the warranty period. In IE contact a Registered Gas Installer (RGII).
		

# BOILER CONTROLS.

## LOGIC COMBI.

24 30 35

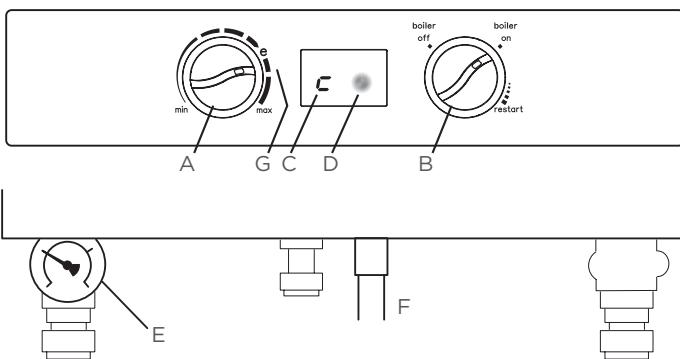


### BOILER CONTROLS

- A. Pre-heat On/Off
- B. DHW Temperature Control
- C. CH Temperature Control
- D. Mode Control
- E. Boiler Status
- F. Burner 'on' Indicator
- G. Pressure Gauge
- H. Condensate Drain
- J. Economy Mode

## LOGIC SYSTEM.

15 18 24 30



### BOILER CONTROLS

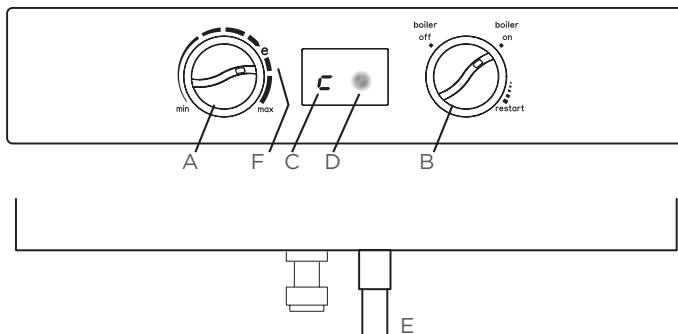
- A. CH Temperature Control
- B. Mode Control
- C. Boiler Status
- D. Burner 'on' Indicator
- E. Pressure Gauge
- F. Condensate Drain
- G. Economy Mode

In normal operation the control unit (E) will show the following codes:  
 O - Standby - no demand for heat, C - Central Heating being supplied,  
 D - DHW being supplied, P - DHW preheat, F - Boiler frost protection  
 (boiler fires if temperature is below 5°C).

In normal operation the control unit (E) will show the following codes:  
 If the pressure is seen to fall below the original installation pressure of  
 1-2 bar over a period of time then a water leak may be indicated. In this  
 event conduct the re-pressurising procedure as shown on page 4 of  
 the User Manual.

## LOGIC HEAT.

12 15 18 24 30



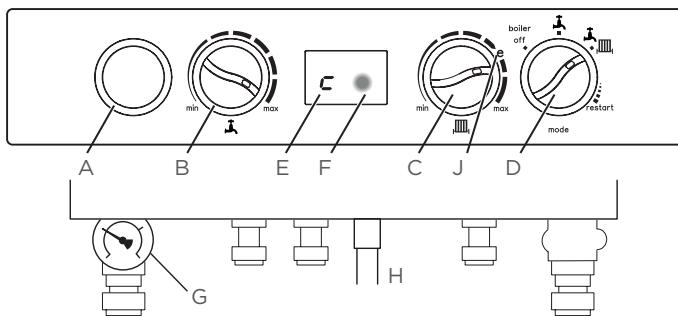
### BOILER CONTROLS

- A. Temperature Control
- B. Mode Control
- C. Boiler Status
- D. Burner 'on' Indicator
- E. Condensate Drain
- F. Economy Mode

## LOGIC COMBI ES/ LOGIC CODE COMBI ES.

24 30 35

26 33 38



### BOILER CONTROLS

- A. Blank
- B. DHW Temperature Control
- C. CH Temperature Control
- D. Mode Control
- E. Boiler Status
- F. Burner 'on' Indicator
- G. Pressure Gauge
- H. Condensate Drain
- J. Economy Mode

## WINTER OPERATION: COMBI.

1. Ensure gas and electric supplies are available and on (i.e. card meters are topped up).
2. Ensure boiler thermostat (C) is on and set 2/3rds of the way round.
3. Set room thermostat to desired temperature, normally between 20-23°C.
4. Control individual room via Thermostatic Radiator Valves. 1 - Low, 2 - Low/Average, 3 - Average, 4 - Average/High, 5 - High.
5. Control the heating times by using programmer/clock and not by switching the boiler on and off.
6. Preheat will operate with the preheat switch (A) set to on.
7. For periods of intense cold leave the system on 24 hours a day. Switch the room thermostat down to 10°C overnight. This will maintain comfort levels and ensure the system doesn't freeze.

(FOR FULL INSTRUCTION DETAILS REFER TO THE IDEAL LOGIC USERS GUIDE)

# COMBINATION BOILER CONTROLS.

## PROGRAMMABLE THERMOSTATS AND TIMERS.

Here at Ideal we believe that choosing the right control to meet the needs of your customer is almost as important as choosing the right product; this is why our boilers are fully compatible with a range of thermostats and timers for the ultimate in home comfort.



### MECHANICAL TIMER.

(Part No. 204839)

Simple heating control through a plug in analogue timer. 24 hour tappet operation with off/timed/continuous periods.



### ELECTRONIC TIMER.

(Part No. 204545)

Easy to use heating control through a plug in digital timer. Plain text operating and diagnostics information. 7 day and up to 3 time periods/day. Automatic summer/winter time update.



### RF MECHANICAL PROGRAMMABLE THERMOSTAT.

(Part No. 204824)

Wireless radio frequency (RF) analogue timer and room thermostat providing heat control. Easy to use 24 hour tappet control.

Image shown is 208774



## RF MECHANICAL TIMER AND ROOM THERMOSTAT KITS.

(Part No. 208352)

Easy to use radio frequency timer (RF), complete with room thermostat. The timer is prewired with plug-in connections to the boiler wiring and features a 24hr tappet operation with off/timed continuous period.

The room thermostat can be freestanding or wallmounted and has a compact design with LCD display and simple symbols to indicate the control.



## RF ELECTRONIC PROGRAMMABLE THERMOSTAT.

(Part No. 204789)

Wireless radio frequency (RF) digital timer and room thermostat providing heating control. 7 day, plain text operating and diagnostics display. Automatic summer/winter time update.

## COMBI, HEAT ONLY & SYSTEM CONTROLS. WEATHER COMPENSATION OUTDOOR SENSOR.

(Part No. 211326 - combi models only)

(Part No. 211332 - heat only and system models)

The Logic and Logic Code Combi ES ranges provide weather compensation when fitted with an outdoor sensor (which is available as an optional accessory). Weather compensation works by measuring the temperature outside the home and adjusting the temperature (or flow) of the radiators inside.

If the weather is particularly cold outside, the outdoor sensor will communicate with the boiler intelligently to increase the radiator temperature. This process also works in reverse, as the outdoor temperature increases, the flow to the radiators too will decrease. This process allows the system to operate more efficiently by only heating to the minimum temperature necessary and also preventing spikes in heating activity.



# LPG CONVERSION KITS.

Designed for use with Logic combi, heat and system 24 & 30 kW boilers (combi ES 30 kW only) and the new Code Combi ES 38 kW, the Ideal LPG (propane) conversion kit provides a simple and robust gas conversion solution.

With kits available inclusive of natural gas to LPG kits, and LPG to natural gas kits, these quick to install accessories provide a simple and pragmatic solution without the need for products to be adjusted.

Each kit contains specific components for each required boiler type.

## FEATURES.

- Available for all product types (combi, heat & system)
- Suitable for most property sizes
- Fast & simple conversion with preset gas valve for no product adjustment

## APPLICABLE MODELS.

- Logic Code Combi ES 38
- Logic Combi 24 & 30
- Logic Combi ES 30
- Logic Heat 24 & 30
- Logic System 24 & 30



# SPECIFICATION.

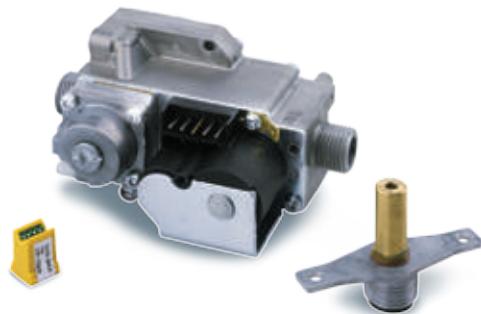
BOILER MODEL	COMBI	CODE	HEAT	SYSTEM
Min. output (kW)	8.0	8.7	8.0	8.0
Max. output (kW)	24.3	24.2	30.3	30.3
Max DHW output (kW)	30.3	38.2	N/A	N/A

NG-LPG CONVERSION KIT	PRODUCT CODE	LPG-NG CONVERSION KIT	PRODUCT CODE
LOGIC CODE COMBI ES33	210391	LOGIC CODE COMBI ES33	177370
LOGIC CODE COMBI ES33	211381	LOGIC CODE COMBI ES33	177527
LOGIC CODE COMBI ES38	210394	LOGIC CODE COMBI ES38	177371
LOGIC CODE COMBI ES38	211382	LOGIC CODE COMBI ES38	177528
LOGIC COMBI 24	212115	LOGIC COMBI 24	177868
LOGIC COMBI 30	207649	LOGIC COMBI 30	176657
LOGIC COMBI 30	211370	LOGIC COMBI 30	177514
LOGIC COMBI ES30	208433	LOGIC COMBI ES30	176823
LOGIC COMBI ES30	211379	LOGIC COMBI ES30	177525
LOGIC HEAT 24	212114	LOGIC HEAT 24	177867
LOGIC HEAT 30	207651	LOGIC HEAT 30	176659
LOGIC HEAT 30	211372	LOGIC HEAT 30	177516
LOGIC SYSTEM 30	207653	LOGIC SYSTEM 30	176661
LOGIC SYSTEM 30	211374	LOGIC SYSTEM 30	177518

## NATURAL GAS TO LPG KIT CONTENTS EACH KIT COMPRISES:

- Gas valve (preset operation)
- Burner injector
- BCC (boiler chip card)
- Data plate labels
- Instructions

Use of the preset gas valve ensures the safety feature of a non adjustable gas valve is retained during conversion.



Two data plate labels are provided in the kits inclusive of a new data plate providing LPG details and a label to retain boiler serial number identity.

# FLUE SITING.

There are a substantial number of flueing options available with the ideal ranges, giving excellent siting flexibility for almost all applications.

The range of options include standard and telescopic flues as well as roof flue and powered vertical flue options.

To ensure siting issues are kept to a minimum High Level Flue Outlet kit options and Flue Deflector kits are available.

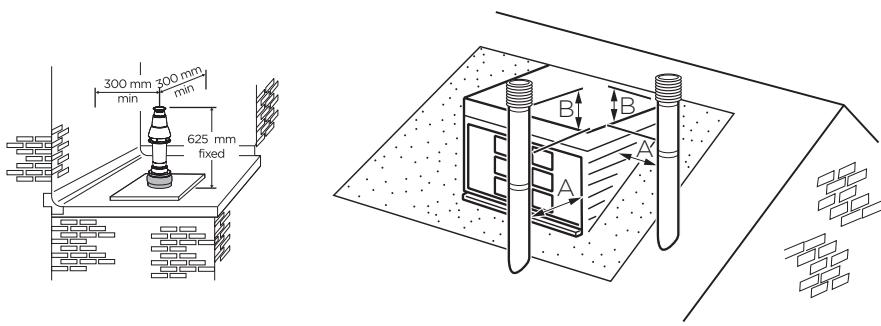
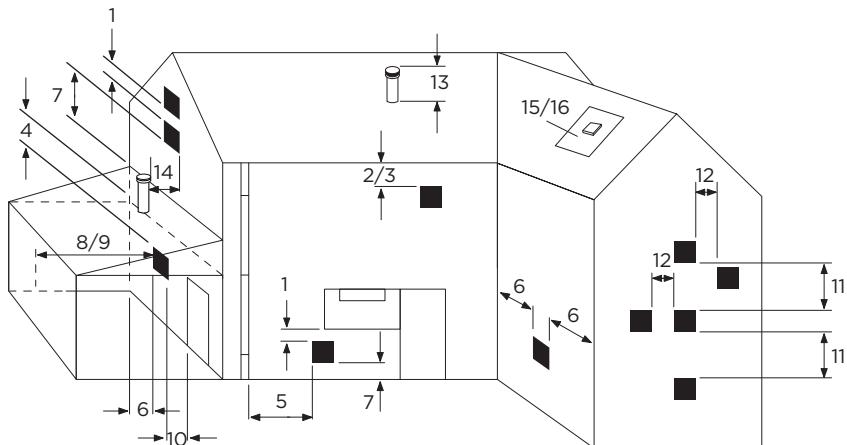
Minimum dimensions of flue terminal positions.

FLUE TERMINAL POSITION	MIN. SPACING
1. Directly below, above or alongside an opening window, air vent or other ventilation opening.	300mm (12")
2. Below guttering, drain pipes or soil pipes. BS5440-1 2008	25mm (1")* 75mm (3")
3. Below eaves. BS5440-1 2008	25mm (1")* 200mm (8")
4. Below balconies or car port roof. BS5440-1 2008	25mm (1")* 200mm (8")
5. From vertical drain pipes or soil pipes. BS5440-1 2008	25mm (1")* 150mm (6")
6. From an internal or external corner or to a boundary alongside the terminal. BS5440-1 2008	25mm (1")*
7. Above ground, roof or balcony level.	300mm (12")
8. From a surface or a boundary facing a terminal.	600mm (24")
9. From a terminal facing a terminal.	1200mm (48")
10. From an opening in a car port (eg. door or window) into dwelling.	1200mm (48")
11. Vertically from a terminal on the same wall.	1500mm (60")
12. Horizontally from a terminal on the wall.	300mm (12")

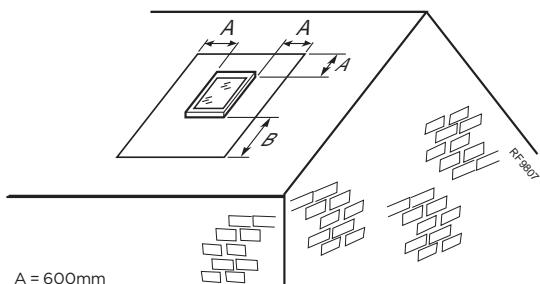
## VERTICAL FLUES

13. Above the roof pitch with roof slope of all angles. Above flat roof.	300mm (12") 300mm (12")
14. From a single wall face. From corner walls.	300mm (12") 300mm (12")
15. Below velux window.	2000mm (79")
16. Above or side of velux window.	600mm (24")

\* Only one reduction down to 25mm is allowable per installation otherwise BS5440-1 2008 dimensions must be followed.

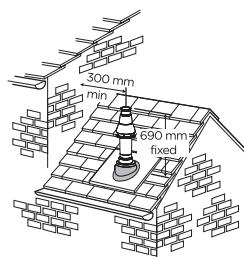


If chimney penetrates dotted area such that A is less than 300mm, B shall not be less than 300mm.



$$A = 600\text{mm}$$

The flue terminal shall not penetrate the shaded area of the roof.



# FLUEING OPTIONS

## LOGIC COMBI (ES), HEAT & SYSTEM.

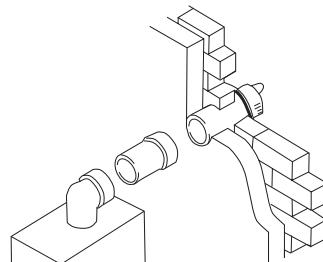
### HORIZONTAL CONCENTRIC 100MM DIAMETER.

#### NOTE:

Lengths are from outside edge of turret to outside wall face.

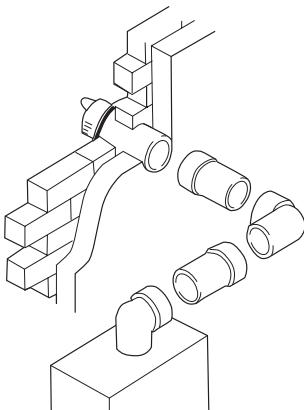
Where extension D Packs are cut to length, flared end connector must be retained.

**(FOR LOGIC HEAT ONLY - REAR OUTLET FLUE (55/80) SEE P.66)**



FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Standard horizontal B pack	208171	556
Telescopic B pack flue	208169	484
Standard horizontal B pack + 6 x extension pack D	208171 6 x 203129	6256 (35 max length 6m)
Telescopic B pack flue + 6 x extension pack D	208169 6 x 203129	6184 (35 max length 6m)
Standard horizontal B pack + 8 x extension pack D	208171 8 x 203129	8186 (30 max length 8m)
Telescopic B pack flue + 8 x extension pack D	208169 8 x 203129	8084 (30 max length 8m)
Standard horizontal B pack + 9 x extension pack D	208171 9 x 203129	9000 (12-24 models)
Telescopic B pack flue + 9 x extension pack D	208169 9 x 203129	9000 (12-24 models)

## HORIZONTAL FLUE WITH 1 X 90° ELBOW.



**NOTE:**

Lengths are sum of all straight lengths between outside edge of turret to outside wall face.

Numbers of extension D packs give flexibility of lengths of straight at either side of elbow. Where extension D packs are cut to length, flared end connector must be retained.

FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Standard horizontal B pack + 90° elbow	208171 203130	556
Telescopic B pack flue + 90° elbow	208169 203130	484
Standard horizontal B pack + 5 x Extension pack D + 90° elbow	208171 5 x 203129 203130	5306 (35 max length 5m. + 1x 90° elbow)
Telescopic B pack flue + 5 x extension pack D + 90° elbow	208169 5 x 203129 203130	5234 (35 max length 5m. + 1x 90° elbow)
Standard horizontal B pack + 7 x extension pack D + 90° elbow	208171 7 x 203129 203130	7236 (30 max length 7m. + 1x 90° elbow)
Telescopic B pack flue + 7 x extension pack D + 90° elbow	208169 7 x 203129 203130	7134 (30 max length 7m. + 1x 90° elbow)
Standard horizontal B pack + 8 x extension pack D + 90° elbow	208171 8 x 203129 203130	8000 (12-24 models max length 8m. + 1x 90° elbow)
Telescopic B pack flue + 8 x extension pack D + 90° elbow	208169 8 x 203129 203130	8000 (12-24 models max length 8m. + 1x 90° elbow)

# FLUEING OPTIONS

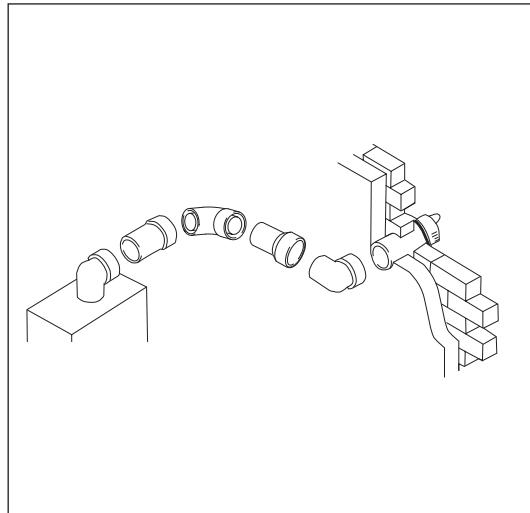
## LOGIC COMBI (ES), HEAT & SYSTEM.

### HORIZONTAL FLUE WITH 2 X 90° ELBOW.

#### NOTE:

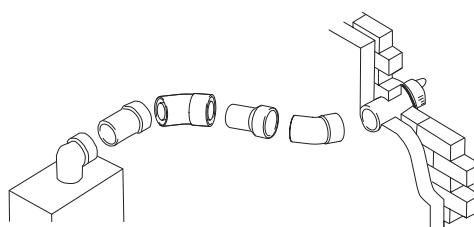
Lengths are sum of all straight lengths between outside edge of turret to outside wall face.

Numbers of extension D packs give flexibility of lengths of straight at either side of elbow. Where extension D packs are cut to length, flared end connector must be retained.



FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Standard horizontal B pack + 2 x 90° elbow	208171 2 x 203130	556
Telescopic B pack flue + 2 x 90° elbow	208169 2 x 203130	484
Standard horizontal B pack + 4 x extension pack D + 2 x 90° elbow	208171 4 x 203129 2 x 203130	4356 (35 max length 4m. + 2x 90° elbow)
Telescopic B pack flue + 4 x extension pack D + 2 x 90° elbow	208169 4 x 203129 2 x 203130	4284 (35 max length 4m. + 2x 90° elbow)
Standard horizontal B pack + 6 x extension pack D + 2 x 90° elbow	208171 6 x 203129 2 x 203130	6286 (30 max length 6m. + 2x 90° elbow)
Telescopic B pack flue + 6 x extension pack D + 2 x 90° elbow	208169 6 x 203129 2 x 203130	6184 (30 max length 6m. + 2x 90° elbow)
Standard horizontal B pack + 7 x extension pack D + 2 x 90° elbow	208171 7 x 203129 2 x 203130	7000 (12-24 models max length 7m. + 2x 90° elbow)
Telescopic B pack flue + 7 x extension pack D + 2 x 90° elbow	208169 7 x 203129 2 x 203130	7000 (12-24 models max length 7m. + 2x 90° elbow)

## HORIZONTAL FLUE WITH 2 X 45° ELBOW.



**NOTE:**

Lengths are sum of all straight lengths between outside edge of turret to outside wall face.

Numbers of extension D packs give flexibility of lengths of straight at either side of elbow. Where extension D packs are cut to length, flared end connector must be retained.

FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Standard horizontal B pack + 2 x 45° elbow	208171 203131	556
Telescopic B pack flue + 2 x 45° elbow	208169 203131	484
Standard horizontal B pack + 5 x extension pack D + 2 x 45° elbow	208171 5 x 203129 203131	5306 (35 max length 4.8m. + 2 x 45° elbow)
Telescopic B pack flue + 5 x extension pack D + 2 x 90° elbow	208169 5 x 203129 203131	5234 (35 max length 4.8m. + 2 x 45° elbow)
Standard horizontal B pack + 7 x extension pack D + 2 x 45° elbow	208171 7 x 203129 203131	7236 (30 max length 6.8m. + 2 x 45° elbow)
Telescopic B pack flue + 7 x extension pack D + 2 x 45° elbow	208169 7 x 203129 203131	7134 (30 max length 6.8m. + 2 x 45° elbow)
Standard horizontal B pack + 8 x extension pack D + 2 x 45° elbow	208171 8 x 203129 203131	7800 (12-24 models max length 7.8m. + 2 x 45° elbow)
Telescopic B pack flue + 8 x extension pack D + 2 x 90° elbow	208169 8 x 203129 203131	7800 (12-24 models max length 7.8m. + 2 x 45° elbow)

# FLUEING OPTIONS

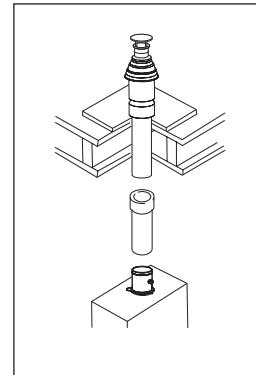
## LOGIC COMBI (ES), HEAT & SYSTEM.

### ROOF FLUE SYSTEM.

FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Roof flue kit + Weather collar	211039 152258/152259*	1325
Roof flue kit + 7 x (max) extension pack D + Weather collar	211039 7 x 203129 152258/152259*	7500

**NOTE:**

\* 152258: universal weather collar (suits any roof pitch)  
152259: flat roof weather collar

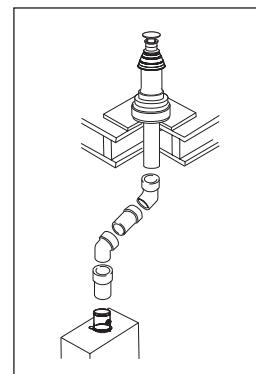


### ROOF FLUE SYSTEM WITH 2 X 45° ELBOW.

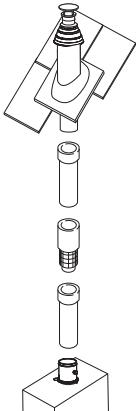
FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Roof flue kit + 6 x (max) extension pack D + 2 x 45° elbow + Weather collar	211039 6 x 203129 203131 152258/152259*	6300

**NOTE:**

\* 152258: universal weather collar (suits any roof pitch)  
152259: flat roof weather collar



## POWERED VERTICAL FLUE SYSTEM.



FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Powered vertical flue kit	203136	
+ Vertical connector	208175	Primary and
+ Powered vertical flue terminal	203134	secondary flue
+ Weather collar	152258/152259*	combined maximum
+ Extension pack D	203129	22mm**
+ Secondary flue extension pipe†	203142	

**NOTE:** Allows the boiler to be sited in a position where no access to an outside wall is available. Permits the concentric flue to run vertically from the top of the boiler and obtain air supply within the roof space, the secondary flue continuing to the external flue terminal. Offset applications are permissible though the maximum length is reduced.

\* 152258: universal weather collar (suits any roof pitch)  
 152259: flat roof weather collar

Where extension D packs are cut to length, the flared end connector must be retained.

† Secondary flue extension pipes are available in 0.5, 1 and 2 metre lengths.

\*\* See installation instructions for maximum primary and maximum secondary flue lengths.

# FLUEING & INSTALLATION ACCESSORIES

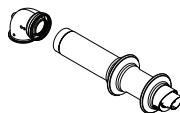
## LOGIC COMBI (ES), HEAT & SYSTEM.

Telescopic B  
pack flue



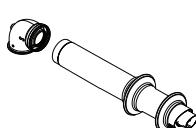
Ideal part no.  
208169

Horizontal flue  
terminal  
(600mm long)



Ideal part no.  
208171

Horizontal flue  
terminal  
(1000mm long)



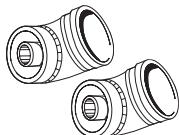
Ideal part no.  
208174

Flue elbow 90°  
kit (60/100)  
packaged



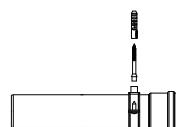
Ideal part no.  
203130

Flue elbow 45°  
kit (60/100)  
packaged (pair)



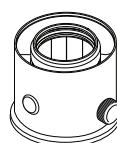
Ideal part no.  
203131

Flue extension  
1000mm (Pack D)



Ideal part no.  
203129

Flue vertical  
connector



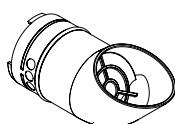
Ideal part no.  
208175

Powered vertical  
flue kit 100mm



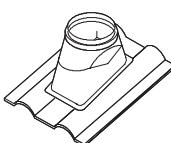
Ideal part no.  
203134

Flue deflector  
60 dia



Ideal part no.  
208176

Weather collar  
(universal)  
100mm



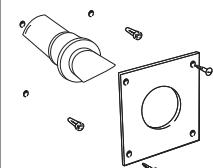
Ideal part no.  
152258

Weather collar  
(flat roof) 100mm

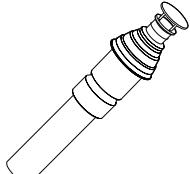
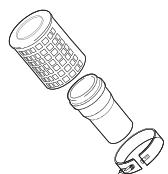
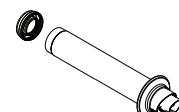
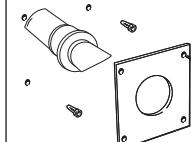
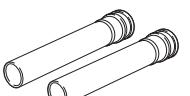
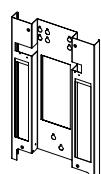
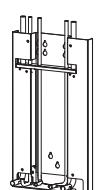
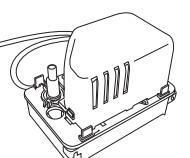
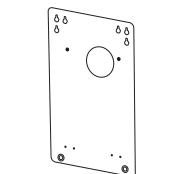
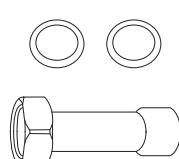
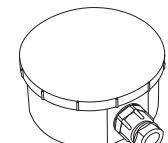


Ideal part no.  
152259

Flue finishing kit



Ideal part no.  
155988

<p>Roof flue kit inc. vertical connector</p>  <p>Ideal part no. 211039</p>	<p>Powered flue kit</p>  <p>Ideal part no. 203136</p>	<p>Rear flue outlet kit (55/80)*</p>  <p>Ideal part no. 205990</p>	<p>Flue finishing kit (55/80)*</p>  <p>Ideal part no. 206151</p>
<p>Secondary flue extension (1000x80mm) pair</p>  <p>Ideal part no. 203142</p>	<p>Flue extension 0.5m or 2m</p>  <p>Ideal part no. 0.5m 211037 2m 211038</p>	<p>Stand off kit<sup>1</sup></p>  <p>Ideal part no. 211103</p>	<p>Stand off kit<sup>2</sup> Inc. piping</p>  <p>Ideal part no. 211101</p>
<p>Condensate pump kit</p>  <p>Ideal part no. 159991</p>	<p>Terminal wall plate RS replacement kit</p>  <p>Ideal part no. 211328 Combi &amp; System 206384 Heat</p>	<p>Pressure gauge<sup>3</sup> extension kit</p>  <p>Ideal part no. 206712</p>	<p>Weather compensation kit</p>  <p>Ideal part no. 211326 Combi 211332 Heat &amp; System</p>

<sup>1</sup> Combi & System only, for Heat models - 206153. <sup>2</sup> Combi only, for System models only 211330.  
<sup>3</sup> Logic Combi & System only.

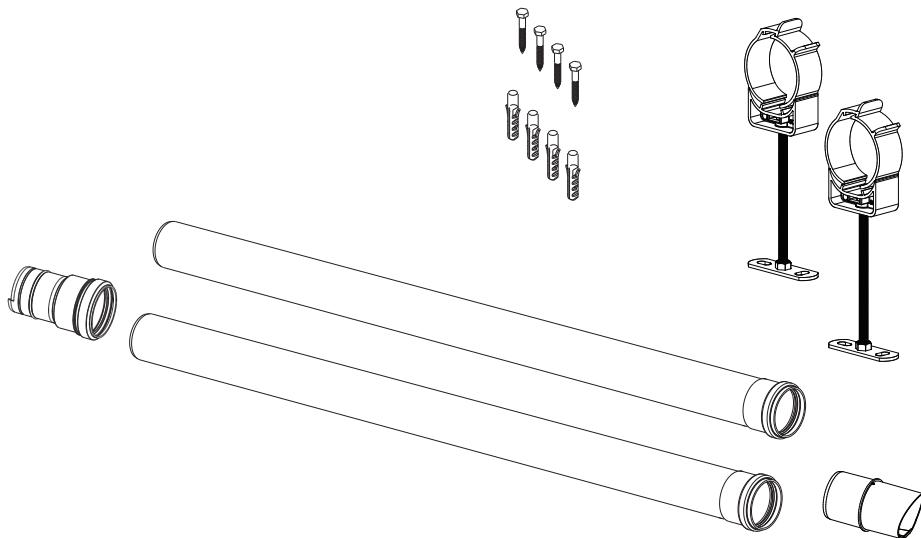
# FLUEING & INSTALLATION ACCESSORIES

## LOGIC COMBI (ES), HEAT & SYSTEM.

INSTALLATION ACCESSORIES	IDEAL PART NO.	COMBI	HEAT	SYSTEM
Pre-piping kit	211041	✓	✗	✗
Pre-piping kit	211331	✗	✗	✓
Security bracket kit	205217	✓	✓	✓

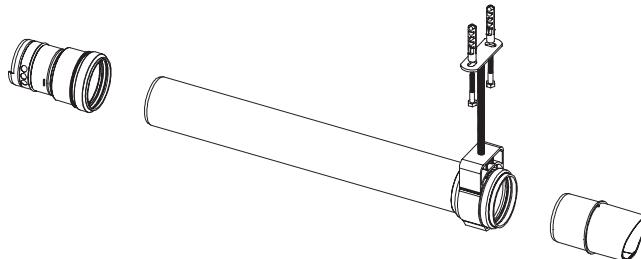
INSTALLATION ACCESSORIES	IDEAL PART NO.	COMBI	HEAT	SYSTEM
Opentherm harness kit	211327	✓	✗	✗
PRV wall outlet pipe kit	205126	✓	✗	✓
DHW expansion vessel kit	205419	✓	✗	✗

Balcony flue  
outlet kit



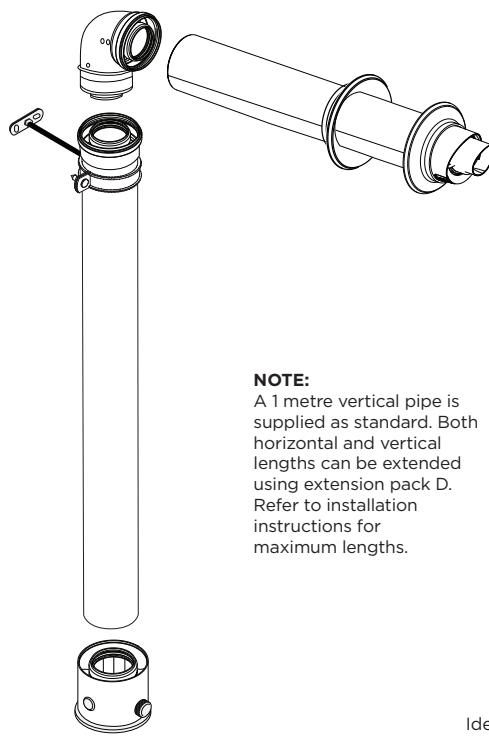
Ideal part no. 208177

Soffit kit



Ideal part no. 211302

Raised horizontal flue outlet kit

**NOTE:**

A 1 metre vertical pipe is supplied as standard. Both horizontal and vertical lengths can be extended using extension pack D. Refer to installation instructions for maximum lengths.

Ideal part no. 208290

## ACCESSORIES

### HIGH LEVEL FLUE OUTLET KIT.

These easy to install kits allow the boiler flue outlet to be extended external to the building, upwards to provide a flue exit at high level, overcoming problems associated with plume emission. The kit can be simply fitted retrofitted if necessary (excluding rear outlet of Logic Heat).

An external 60mm diameter flue leads from the boiler terminal (which includes a 90° elbow at the flue exit) to terminate with a 90° elbow complete with grille. Push fit one metre extension pipes are used as required, and the fixing clips supplied support the system from the wall.

Both 90° and 45° elbows are available to provide routing options.

#### THE KIT COMPRISSES:

Flue elbow - 1 off

60mm flue exit elbow - 1 off

60mm horizontal flue exit - 1 off

60mm x 500mm flue outlet Extension pipe - 1 off

This kit is specified for use with the normal standard B pack.

The standard terminal nose is replaced with the high level terminal.

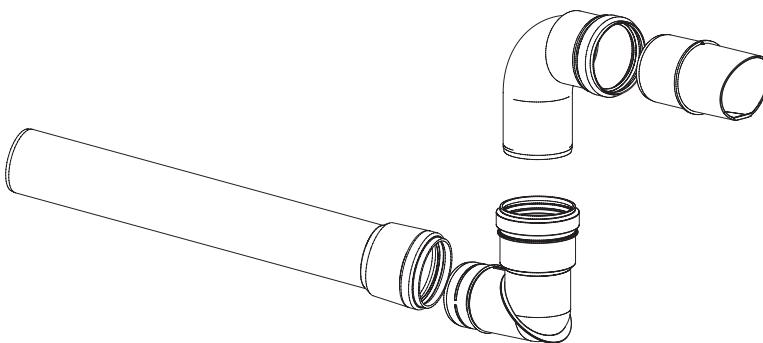
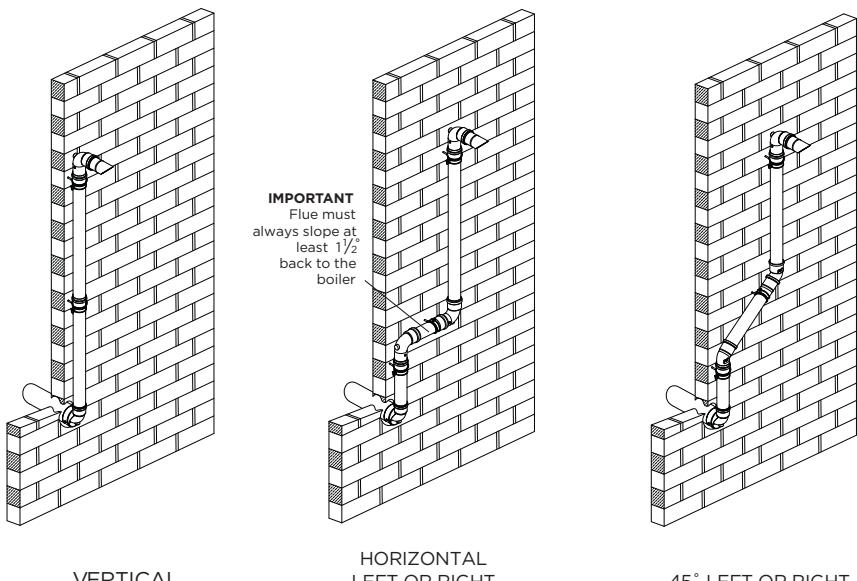


Diagram representative only.



#### LOGIC (ALL MODELS)

#### IDEAL PART NO.

High level flue outlet kit	208178
Logic Heat rear flue outlet (55/80) ONLY high level flue outlet kit (55/80)	205989
1m x 60mm extension pipe (with bracket)	203228
90° elbow	203229
45° elbow (pair)	203230

If additional elbows to those supplied in the high level flue outlet kit are used, deduct the following resistances (metres) from the maximum boiler flue length.

#### LOGIC (ALL MODELS)

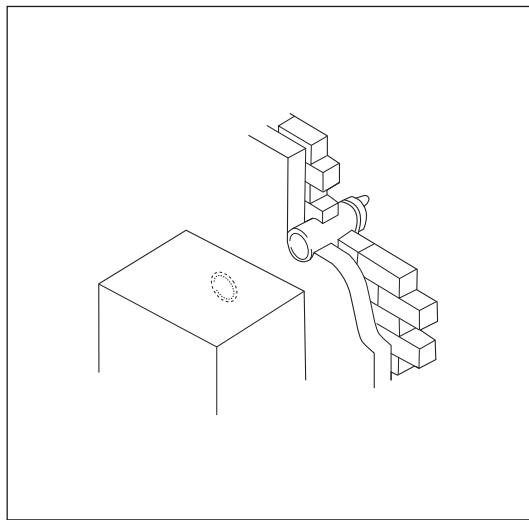
#### METRES

90° elbow	1.4
45° elbow (pair)	1.25

# FLUEING OPTIONS

## LOGIC HEAT.

### REAR OUTLET FLUE TERMINAL (55/80) - 80MM.



FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Rear outlet flue outlet kit 55/80	205990	442

**NOTE:**

Length is wall thickness. Minimum wall thickness permissible is 115mm.  
No extensions are permitted.

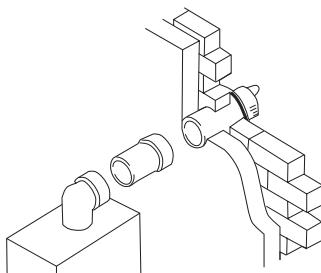
FLUEING ACCESSORIES	IDEAL PART NO.
Rear outlet flue terminal (55/80)	205990
Flue finishing kit (55/80)	206151

LOGIC HEAT ONLY	IDEAL PART NO.
High level outlet kit (55/80)	205989

For 1m extension and elbows use standard parts 203228/9 & 30.

# FLUEING OPTIONS

## LOGIC CODE COMBI ES.



### HORIZONTAL CONCENTRIC 100MM DIAMETER.

**NOTE:**

Lengths are from outside edge of turret to outside wall face.

Where extension D Packs are cut to length, flared end connector must be retained.

FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Standard horizontal B pack	208171	556
Standard horizontal B pack + 6 x extension pack D	208171 6 x 203129	6256 (38 max length 6m)
Standard horizontal B pack + 8 x extension pack D	208171 8 x 203129	8186 (33 max length 8m)
Standard horizontal B pack + 9 x extension pack D	208171 9 x 203129	9000 (26 models)

# FLUEING OPTIONS

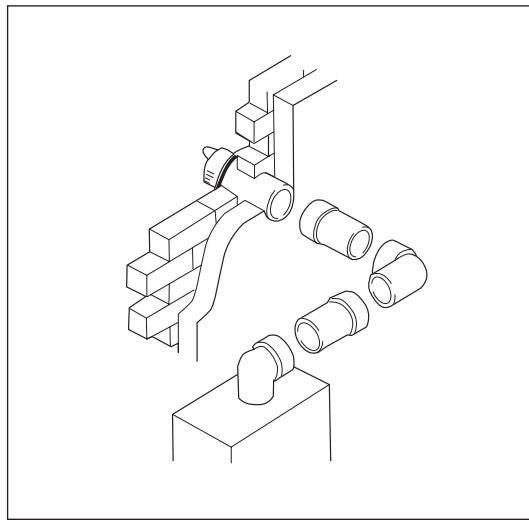
## LOGIC CODE COMBI ES.

### HORIZONTAL FLUE WITH 1 X 90° ELBOW.

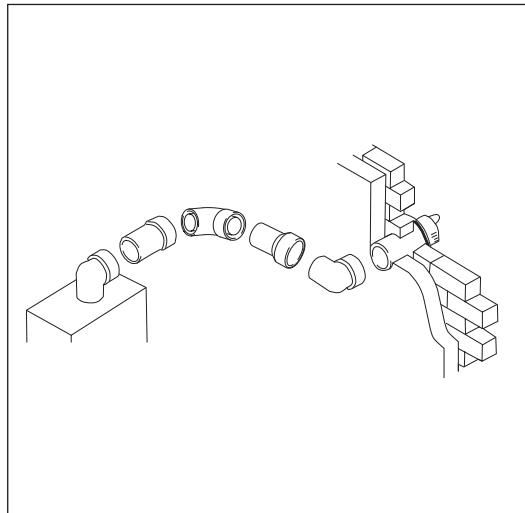
**NOTE:**

Lengths are sum of all straight lengths between outside edge of turret to outside wall face.

Numbers of extension D packs give flexibility of lengths of straight at either side of elbow. Where extension D packs are cut to length, flared end connector must be retained.



FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Standard horizontal B pack + 90° elbow	208171 203130	556
Standard horizontal B pack + 5 x extension pack D + 90° elbow	208171 5 x 203129 203130	5306 (38 max length 5m. + 1x 90° elbow)
Standard horizontal B pack + 7 x extension pack D + 90° elbow	208171 7 x 203129 203130	7236 (33 max length 7m. + 1x 90° elbow)
Standard horizontal B pack + 8 x extension pack D + 90° elbow	208171 8 x 203129 203130	8000 (26 models max length 8m. + 1x 90° elbow)



## HORIZONTAL FLUE WITH 2 X 90° ELBOW.

### NOTE:

Lengths are sum of all straight lengths between outside edge of turret to outside wall face.

Numbers of extension D packs give flexibility of lengths of straight at either side of elbow. Where extension D packs are cut to length, flared end connector must be retained.

FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Standard horizontal B pack + 2 x 90° elbow	208171 2 x 203130	556
Standard horizontal B pack + 4 x extension pack D + 2 x 90° elbow	208171 4 x 203129 2 x 203130	4356 (38 max length 4m. + 2x 90° elbow)
Standard horizontal B pack + 6 x extension pack D + 2 x 90° elbow	208171 6 x 203129 2 x 203130	6286 (33 max length 6m. + 2x 90° elbow)
Standard horizontal B pack + 7 x extension pack D + 2 x 90° elbow	208171 7 x 203129 2 x 203130	7000 (26 models max length 7m. + 2x 90° elbow)

# FLUEING OPTIONS

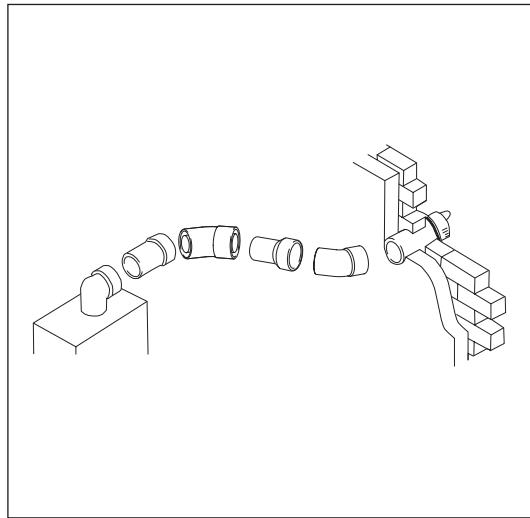
## LOGIC CODE COMBI ES.

### HORIZONTAL FLUE WITH 2 X 45° ELBOW.

#### NOTE:

Lengths are sum of all straight lengths between outside edge of turret to outside wall face.

Numbers of extension D packs give flexibility of lengths of straight at either side of elbow. Where extension D packs are cut to length, flared end connector must be retained.



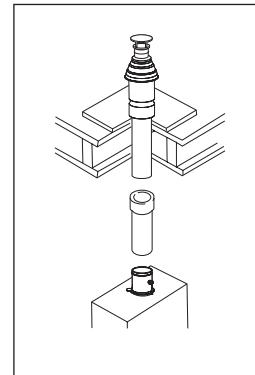
FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Standard horizontal B pack + 2 x 45° elbow	208171 203131	556
Standard horizontal B pack + 5 x extension pack D + 2 x 45° elbow	208171 5 x 203129 203131	5306 (35 max length 4.8m. + 2 x 45° elbow)
Standard horizontal B pack + 7 x extension pack D + 2 x 45° elbow	208171 7 x 203129 203131	7236 (30 max length 6.8m. + 2 x 45° elbow)
Standard horizontal B Pack + 8 x extension pack D + 2 x 45° elbow	208171 8 x 203129 203131	7800 (12-24 models max length 7.8m. + 2 x 45° elbow)

## ROOF FLUE SYSTEM.

FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Roof flue kit + Weather collar	211039 152258/152259*	1325
Roof flue kit + 7 x (max) extension pack D + Weather collar	211039 7 x 203129 152258/152259*	7500

**NOTE:**

\* 152258: universal weather collar (suits any roof pitch)  
152259: flat roof weather collar

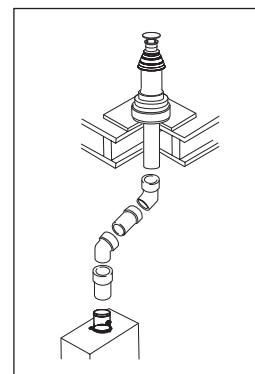


## ROOF FLUE SYSTEM WITH 2 X 45° ELBOW.

FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Roof flue kit + 6 x (max) extension pack D + 2 x 45° elbow + Weather collar	211039 6 x 203129 203131 152258/152259*	6300

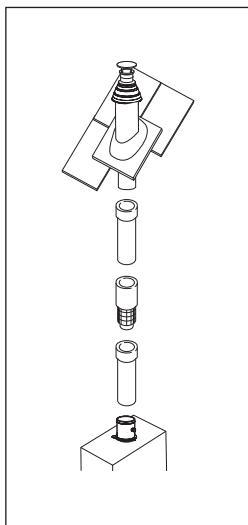
**NOTE:**

\* 152258: universal weather collar (suits any roof pitch)  
152259: flat roof weather collar



# FLUEING OPTIONS

## LOGIC CODE COMBI ES.



### POWERED VERTICAL FLUE SYSTEM.

FLUE	IDEAL PART NO.	MAXIMUM STRAIGHT FLUE LENGTH (MM)
Powered vertical flue kit	203136	
+ Vertical connector	208175	Primary and
+ Powered vertical flue terminal	203134	secondary flue
+ Weather collar	152258/152259*	combined maximum
+ Extension pack D	203129	22mm**
+ Secondary flue extension pipe†	203142	

**NOTE:** Allows the boiler to be sited in a position where no access to an outside wall is available. Permits the concentric flue to run vertically from the top of the boiler and obtain air supply within the roof space, the secondary flue continuing to the external flue terminal. Offset applications are permissible though the maximum length is reduced.

\* 152258: universal weather collar (suits any roof pitch)  
 152259: flat roof weather collar

Where extension D packs are cut to length, the flared end connector must be retained.

† Secondary flue extension pipes are available in 0.5, 1 and 2 metre lengths.

\*\* See installation instructions for maximum primary and maximum secondary flue lengths.

# FLUEING ACCESSORIES

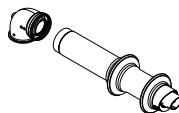
## LOGIC CODE COMBI ES.

Telescopic B  
pack flue



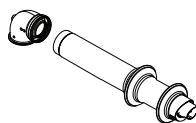
Ideal part no.  
208169

Horizontal flue  
terminal  
(600mm long)



Ideal part no.  
208171

Horizontal flue  
terminal  
(1000mm long)



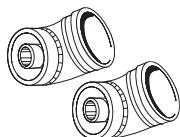
Ideal part no.  
208174

Flue elbow 90°  
kit (60/100)  
packaged



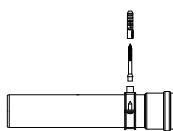
Ideal part no.  
203130

Flue elbow 45°  
kit (60/100)  
packaged (pair)



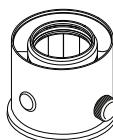
Ideal part no.  
203131

Flue extension  
1000mm (Pack D)



Ideal part no.  
203129

Flue vertical  
connector



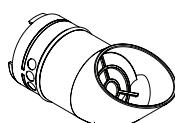
Ideal part no.  
208175

Powered vertical  
flue kit 100mm



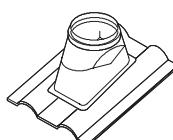
Ideal part no.  
203134

Flue deflector  
60 dia



Ideal part no.  
208176

Weather collar  
(universal)  
100mm



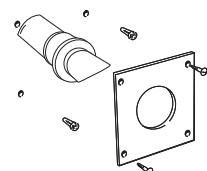
Ideal part no.  
152258

Weather collar  
(flat roof) 100mm



Ideal part no.  
152259

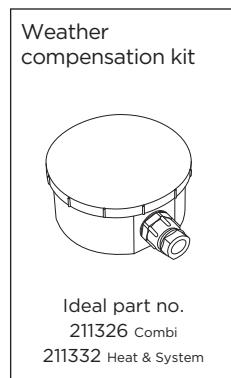
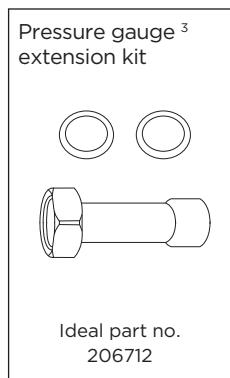
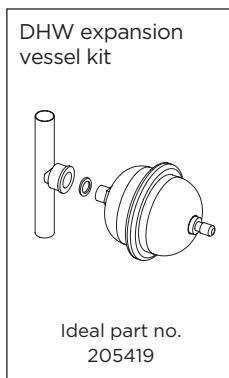
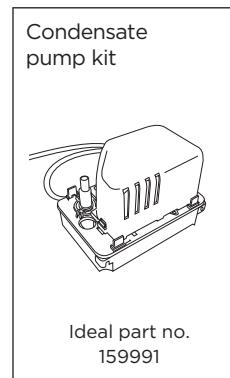
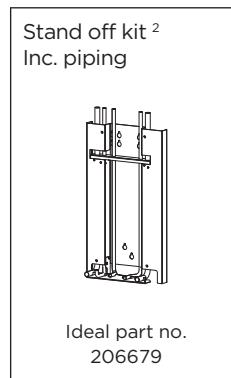
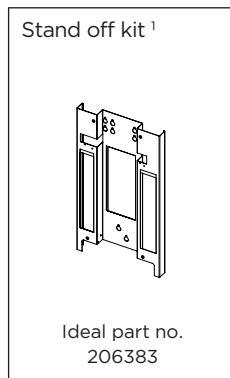
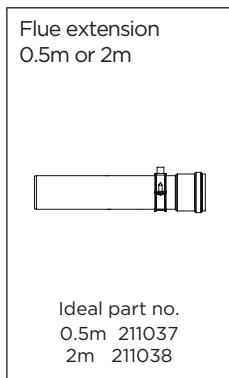
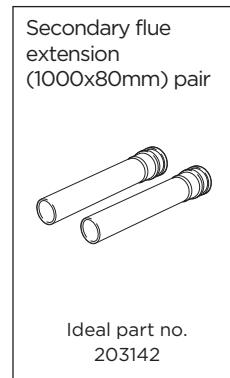
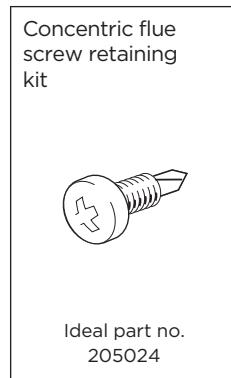
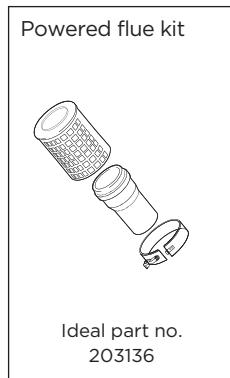
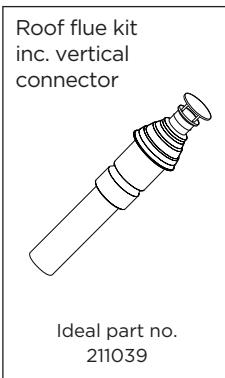
Flue finishing kit



Ideal part no.  
155988

# FLUEING & INSTALLATION ACCESSORIES

## LOGIC CODE COMBI ES.

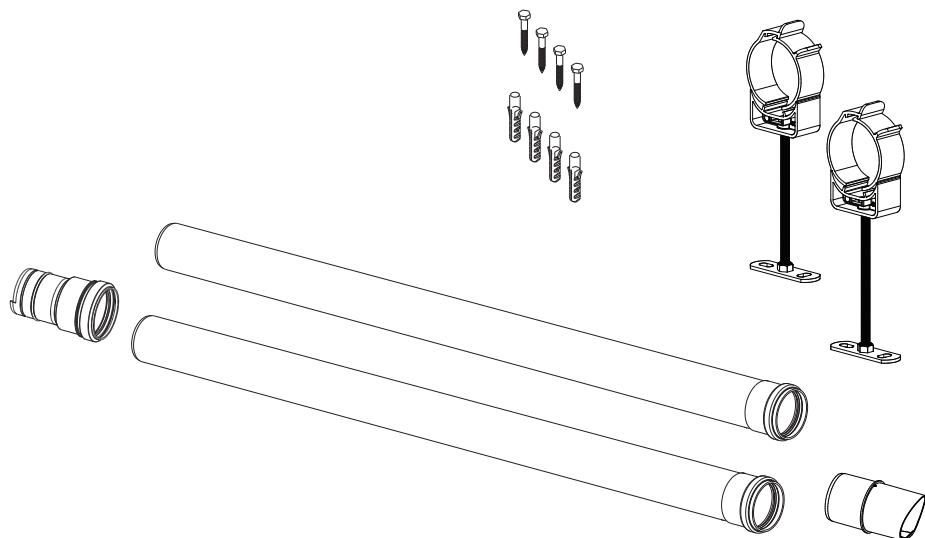


<sup>1</sup> Combi & System only, for Heat models - 206153. <sup>2</sup> Combi only, for System models only 206154.  
<sup>3</sup> Logic Combi & System only.

INSTALLATION ACCESSORIES	IDEAL PART NO.
Pre-piping kit	206704
Security bracket kit	206708

INSTALLATION ACCESSORIES	IDEAL PART NO.
Opentherm harness kit	204915
PRV wall outlet pipe kit	205126

Balcony flue  
outlet kit

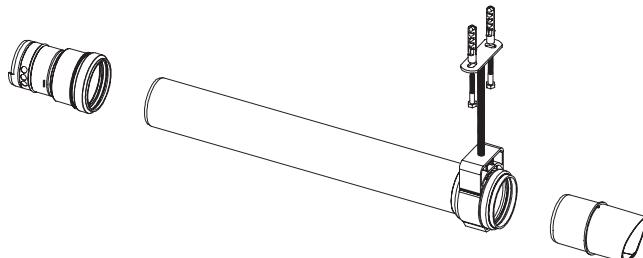


Ideal part no. 208177

## FLUEING ACCESSORIES

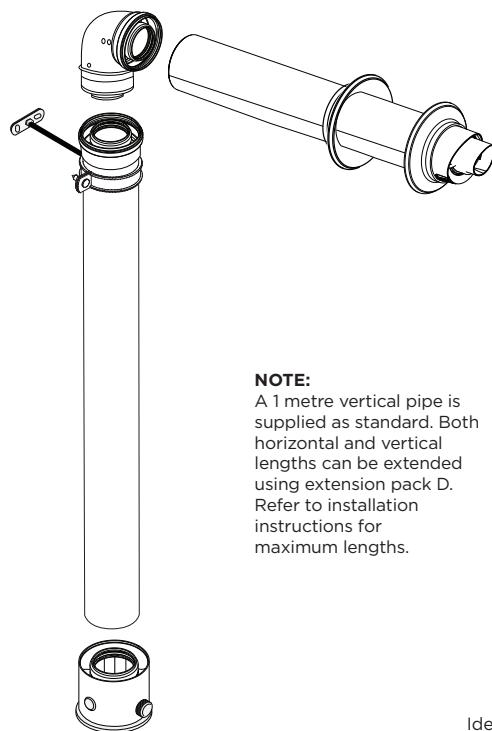
### LOGIC CODE COMBI ES.

Soffit kit



Ideal part no. 211302

Raised horizontal flue outlet kit



**NOTE:**

A 1 metre vertical pipe is supplied as standard. Both horizontal and vertical lengths can be extended using extension pack D. Refer to installation instructions for maximum lengths.

Ideal part no. 208290

## ACCESSORIES

### HIGH LEVEL FLUE OUTLET KIT.

These easy to install kits allow the boiler flue outlet to be extended external to the building, upwards to provide a flue exit at high level, overcoming problems associated with plume emission. The kit can be simply fitted retrofitted if necessary.

An external 60mm diameter flue leads from the boiler terminal (which includes a 90° elbow at the flue exit) to terminate with a 90° elbow complete with grille. Push fit one metre extension pipes are used as required, and the fixing clips supplied support the system from the wall.

Both 90° and 45° elbows are available to provide routing options.

#### THE KIT COMPRISSES:

Flue elbow - 1 off

60mm flue exit elbow - 1 off

60mm horizontal flue exit - 1 off

60mm x 500mm flue outlet Extension pipe - 1 off

This kit is specified for use with the normal standard B pack.

The standard terminal nose is replaced with the high level terminal.

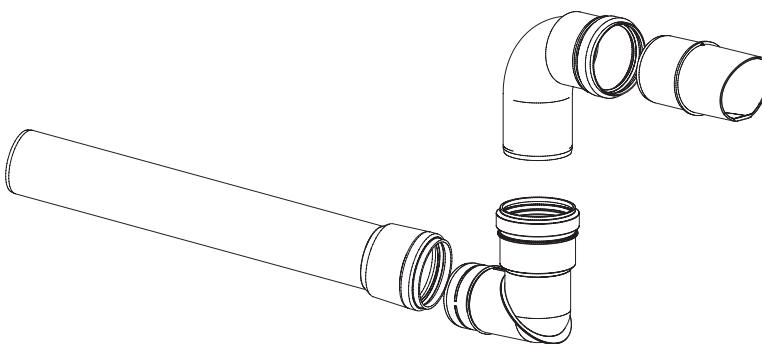
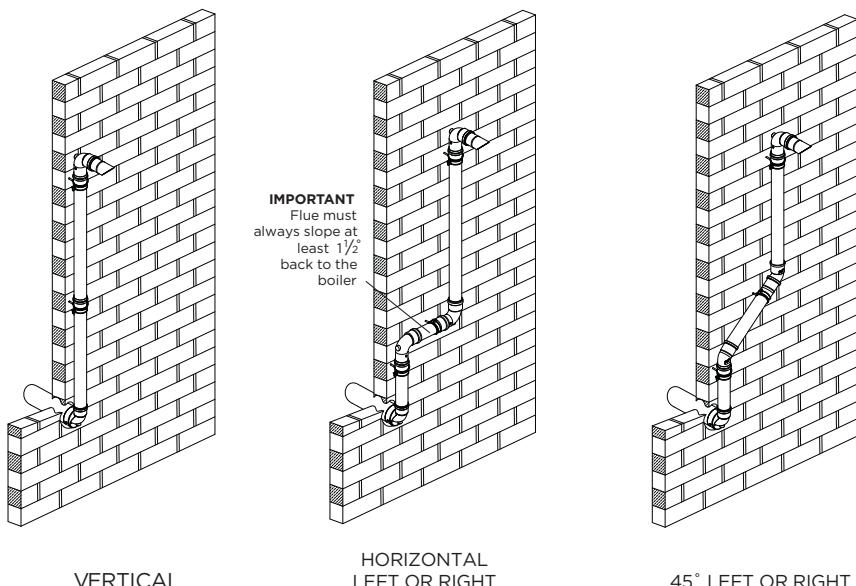


Diagram representative only.



### LOGIC CODE COMBI ES

### IDEAL PART NO.

High level flue outlet kit	208178
1m x 60mm extension pipe (with bracket)	203228
90° elbow	203229
45° elbow (pair)	203230

If additional elbows to those supplied in the High Level Flue Outlet kit are used, deduct the following resistances (metres) from the maximum boiler flue length.

### LOGIC (ALL MODELS)

### METRES

90° elbow	1.4
45° elbow (pair)	1.25



## CONTACT US.

Should you need assistance from any of our specialist teams they are on hand to help you 7 days a week, 364 days a year.

### **CUSTOMER SERVICE**

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### **SALES ORDERS AND ENQUIRIES**

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### **TECHNICAL HELP**

Tel: 01482 498663

### **IDEAL GENUINE PARTS**

Tel: 01482 498665

### **MAIN RECEPTION**

Tel: 01482 492251

+

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